EQUAL OPPORTUNITY

It is the policy of UTS to provide equal opportunity for all persons and to prevent discrimination and harassment on the basis of race, colour, descent, national or ethnic origin, ethno-religious background, sex, marital status, pregnancy, potential pregnancy, family responsibilities, disability (physical, intellectual, psychiatric, sensory, neurological, or learning disabilities, and illnesses such as HIV/AIDS), age, homosexuality, transgender status, political conviction, and religious belief.

The Equal Opportunity and Diversity policy describes responsibilities for all members of the UTS community and sets out consequences of any breach of the policy:
www.gsu.uts.edu.au/policies/equalopportunity.html

FREE SPEECH

UTS supports the right to freedom of speech and the rights of its members to contribute to the diversity of views presented in our society.

The policy on the Expression and Practice of Religious, Political and Other Values, Beliefs and Ideas at UTS defines the rights and responsibilities of members of the UTS community in relation to the provisions and parameters that support freedom of speech:
www.gsu.uts.edu.au/policies/expressionpracticepolicy.html

NON-DISCRIMINATORY LANGUAGE

UTS has adopted the use of non-discriminatory language as a key strategy in providing equal opportunity for all staff and students. Guidelines for the use of non-discriminatory language have been developed and all members of the University community are encouraged to use them.
www.equity.uts.edu.au/language/inclusive

ACCESS UTS ON THE WEB

www.uts.edu.au

UTS: Handbook
www.handbook.uts.edu.au

UTS: Calendar
www.calendar.uts.edu.au

UTS Legislation, Rules and Policies
www.gsu.uts.edu.au/lrp.html

EDITORIAL AND PRODUCTION

Academic Programs Office, Institute for Multimedia and Learning, Division of the Deputy Vice-Chancellor and Vice-President (Teaching, Learning and Equity)

UTS Web Team, Information Technology Division (Infrastructure and Operations), Division of the Deputy Vice-Chancellor and Vice-President (Corporate Services)

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The UTS: Handbook 2013 provides comprehensive information on approved courses and subjects to be offered in 2013. The handbook covers course content and structure, subject and elective choices, attendance patterns, and credit point requirements, as well as important course area information for current and prospective students, and general information on student services and facilities.

The handbook is divided into the following main sections:

- List of courses by course area
- List of courses by faculty
- General information
  - Studying at UTS
  - Understanding courses and subjects
  - Scholarships, assistance and fees
  - Services and facilities
  - Principal dates
  - Academic year dates
- Course area information
  - UTS: Business
  - UTS: Communication
  - UTS: Design, Architecture and Building
  - UTS: Education
  - UTS: Engineering
  - UTS: Health
  - UTS: Information Technology
  - UTS: International Studies
  - UTS: Law
  - UTS: Pharmacy
  - UTS: Science
- Courses
  - Undergraduate
  - Postgraduate coursework
  - Postgraduate research
- Study package directory
  - Choice blocks
  - Majors
  - Sub-majors
  - Streams
- Subjects
- Alphabetical lists
  - Subjects
  - Majors
  - Sub-majors

Finding information

General
The general information section has University-wide information for all students on matters such as application and admission, enrolment, fees, financial assistance (including scholarships and prizes), health services, semester start and end dates, study plans, understanding study plans, study packages, location of UTS Student Centres, the library, child care, Students’ Association, etc. (see pages 20–48).

Course areas
The course areas section contains information for undergraduate and postgraduate students on each of the University’s 11 course areas, including contacts and inquiries, student facilities, centres and associations, etc. (see pages 49–107).

Courses
Information on specific courses can be found in the following ways.

- If you know the course code, go to Contents: courses are divided into Undergraduate, Postgraduate coursework, and Postgraduate research, with courses listed numerically by course code (see pages 4–9).
- If you know the course code, you can also go directly to its course entry. Courses appear numerically by course code within their level section (i.e. Undergraduate courses, Postgraduate coursework courses, Postgraduate research courses) (see pages 108–497).
- If you know the course area you wish to study in, go to List of courses by course area: courses are grouped under their course area and divided into Undergraduate, Postgraduate coursework, and Postgraduate research, with courses listed numerically by course code (see pages 10–14).
- If you know the faculty offering the course, go to List of courses by faculty: courses are grouped under their faculty and divided into Undergraduate, Postgraduate coursework, and Postgraduate research, with courses listed numerically by course code (see pages 15–19).
- If you know the name of the course, go to Index: courses are listed alphabetically by course name (see pages 1064–1069).

Subjects
Information on specific subjects can be found in the following ways.

- If you know the subject code, go to Subjects: subjects appear numerically by subject code (see pages 680–1039).
- If you know the name of the subject, go to Alphabetical list of subjects: subjects are listed alphabetically by subject name (see pages 1040–1058).

Majors, sub-majors, choice blocks or streams
Information on the make up of specific study packages (i.e. the subjects in specific majors, sub-majors, choice blocks and streams) can be found in the following ways.

- If you know the code, go to Study package directory: study packages appear alpha-numerically by code (see pages 496–679).
- If you know the name of the major, go to Alphabetical list of majors: majors are listed alphabetically by major name (see pages 1059–1060).
- If you know the name of the sub-major, go to Alphabetical list of sub-majors: sub-majors are listed alphabetically by sub-major name (see pages 1061–1062).
# CONTENTS

Note: Courses in the handbook appear in numerical order and are listed as such in the contents pages. For the list of courses by course area, see page 10. For the list of courses by faculty, see page 15. An alphabetical listing of all courses appears in the index, see page 1064.

## HOW TO USE THIS HANDBOOK

- Contents .................................................. 3
- List of Courses by Course Area ............................ 10
- List of Courses by Faculty ................................ 15
- General Information ...................................... 20
  - Studying at UTS ........................................ 20
  - Introduction to UTS ................................. 20
  - Faculties ............................................. 20
  - Finding your way around ................................ 20
  - Student inquiries ..................................... 20
  - UTS Student Centres .................................. 20
  - UTS International .................................... 21
  - Postgraduate research ................................ 21
  - UTS communication with students ...................... 21
  - My Student Admin ..................................... 21
  - UTS email ............................................ 21
  - Ask UTS and UTS Service Desk ......................... 21
  - Other sources of information .......................... 21
  - Student identity cards ................................ 21
  - Application and admission ............................. 21
  - Domestic students .................................... 21
  - International students ................................ 22
  - Non-award and cross-institutional study ............... 22
  - English proficiency ................................... 22
  - Enrolment ............................................ 22
  - Census dates ......................................... 22
  - Academic progression .................................. 23
  - Examinations and results ................................ 23
  - Course completion and graduation ..................... 23
  - Prizes and awards ..................................... 23
  - Global exchange ...................................... 24
  - Student leadership programs ........................... 24
  - Studying at UTS: INSEARCH ......................... 24
  - Legislation, rules and policies ....................... 25
  - Equity and diversity .................................. 26
  - Student Ombuds ....................................... 26
- Understanding courses and subjects ....................... 27
  - Course duration and attendance ...................... 27
  - Teaching periods ..................................... 27
  - Standard duration .................................... 27
  - Study load ........................................... 27
  - Enrolment restrictions ................................ 27
  - Attendance modes ..................................... 27
  - Class attendance ..................................... 27
  - International students ............................... 27
  - Assumed knowledge ................................... 27
  - Credit recognition .................................... 28
  - Professional recognition ................................ 28
  - Availability and typical availability ..................... 28
  - UAC codes ........................................... 28
- Study plans .............................................. 28
- Course structure ......................................... 28
- Sub-structures ........................................... 28
- Course programs ......................................... 29
- Subjects ................................................ 29
  - Credit points ........................................ 29
  - Requisites ............................................ 29
  - Recommended studies .................................. 29
  - Core subjects ........................................ 29
  - Options lists ......................................... 29
  - Electives .............................................. 29
  - Subjects offered by other faculties or institutions .... 29
  - Assessment ............................................ 29
- Academic units offering courses and subjects ........... 30
  - Centre for Local Government ......................... 30
  - Institute for Sustainable Futures ................. 30
  - UTS Shopfront ....................................... 30
- Scholarships, assistance and fees ........................ 31
  - Scholarships ......................................... 31
  - Vice-Chancellor’s scholarships ......................... 31
  - Faculty-specific scholarships .......................... 31
  - UTS Diversity Access Scholarships .................... 31
  - Commonwealth scholarships ........................... 31
  - Postgraduate research scholarships .................... 31
  - Scholarships for international students .............. 31
- Financial assistance ...................................... 31
  - Study Assist ........................................... 31
  - HECS-HELP ............................................ 31
  - FEE-HELP ............................................. 31
  - SA-HELP ............................................. 32
  - Commonwealth Higher Education Student Support Number (CHESSN) ..................................... 32
  - OS-HELP ............................................. 32
  - Centrelink benefits .................................... 32
  - Abstudy ................................................. 32
  - International loan schemes ............................. 32
  - UTS financial assistance ................................ 32
- Fees and costs ............................................ 32
  - Course and subject fees ................................ 32
  - Student services and amenities fee .................... 33
  - Other costs ............................................ 33
  - International student fees and costs .................. 33
- Services and facilities .................................... 34
  - Support for student learning ........................... 34
  - Student services ....................................... 34
  - Peer-assisted learning .................................. 34
  - Computing facilities at UTS ............................ 34
  - Bridging courses ...................................... 35
  - Academic liaison officers ............................... 36
- Student learning centres ................................ 36
  - Chemistry Learning Centre ............................. 36
  - Jumbunna Indigenous House of Learning ................ 36
  - Mathematics and ICT Study Centre .................... 36
  - Physics Learning Centre ................................ 36
- UTS Library .............................................. 36

---

4
Campus life ................................................................. 37
• Child care .............................................................. 37
• Co-op Bookshop ...................................................... 37
• Radio 2SER-FM [107.3 FM] ........................................ 37
• Students’ Association ................................................ 37
• UTS Gallery and Art Collection .................................. 37
• UTS Union Ltd .......................................................... 38
Safety, security and sustainability ................................. 38

Principal dates ............................................................ 40
Academic year dates .................................................... 45

COURSE AREA INFORMATION ......................................... 49

UTS: Business .............................................................. 49
Information for students ................................................. 49
Undergraduate course information ................................. 50
Postgraduate course information .................................... 52

UTS: Communication .................................................... 53
Information for students ................................................. 53
Undergraduate course information ................................. 54
Postgraduate course information .................................... 55

UTS: Design, Architecture and Building .......................... 57
Information for students ................................................. 57
Undergraduate course information ................................. 58
Postgraduate course information .................................... 59

UTS: Education ............................................................ 60
Information for students ................................................. 60
• Teacher education .................................................... 60
• Adult education ......................................................... 61
Postgraduate course information .................................... 61

UTS: Engineering ........................................................ 62
Information for students ................................................. 62
Undergraduate course information ................................. 65
Postgraduate course information .................................... 66

UTS: Health ................................................................. 72
Clinical ladders ............................................................ 74
Information for students ................................................. 72
Undergraduate course information ................................. 73
Postgraduate course information .................................... 77

UTS: Information Technology ....................................... 81
Information for students ................................................. 81
Undergraduate course information ................................. 83
Postgraduate course information ................................. 83

UTS: International Studies ............................................ 87
Information for students ................................................. 87
Undergraduate course information ................................. 92
Postgraduate course information ................................. 92

UTS: Law ..................................................................... 93
Information for students ................................................. 93
Undergraduate course information ................................. 96
Postgraduate course information ................................. 96

UTS: Pharmacy ........................................................... 101
Information for students ................................................. 101
Postgraduate course information .................................... 102

UTS: Science ............................................................... 102
Information for students ................................................. 102
Undergraduate course information ................................. 105
Postgraduate course information .................................... 107

UNDERGRADUATE COURSES
C08002 Bachelor of Teaching in Secondary Education .......... 468
C09004 Bachelor of Business [Honours] ......................... 108
C09005 Bachelor of Management [Honours] in Events and Leisure .... 109
C09007 Bachelor of Management [Honours] in Tourism .......... 109
C09009 Bachelor of Arts [Honours] in Communication .......... 110
C09018 Bachelor of Nursing [Honours] .......................... 111
C09019 Bachelor of Science [Honours] in Information Technology ........................................... 111
C09020 Bachelor of Science [Honours] in Mathematics .......... 112
C09021 Bachelor of Mathematics and Finance [Honours] .......... 113
C09022 Bachelor of Biotechnology [Honours] ..................... 113
C09023 Bachelor of Science [Honours] in Biomedical Science ........ 114
C09026 Bachelor of Science [Honours] in Applied Chemistry .......... 114
C09029 Bachelor of Science [Honours] in Environmental Science ........ 115
C09031 Bachelor of Medical Science [Honours] .................. 116
C09035 Bachelor of Science [Honours] in Applied Physics ........ 116
C09046 Bachelor of Science [Honours] in Nanotechnology .......... 117
C09048 Bachelor of Design [Honours] in Architecture .......... 117
C09050 Bachelor of Forensic Science [Honours] in Applied Chemistry .......... 118
C09051 Bachelor of Midwifery [Honours] ......................... 119
C09052 Bachelor of Design [Honours] in Photography and Situated Media ........ 119
C09055 Bachelor of Design [Honours] in Interior and Spatial Design .......... 120
C09056 Bachelor of Design [Honours] in Animation .............. 121
C09057 Bachelor of Human Movement [Honours] ............... 121
C09058 Bachelor of Management [Honours] in Sport and Exercise .......... 122
C09059 Bachelor of Design [Honours] in Integrated Product Design .......... 123
C09060 Bachelor of Design [Honours] in Fashion and Textiles .......... 123
C09061 Bachelor of Design [Honours] in Visual Communication .......... 124
C10004 Bachelor of Design in Architecture .......... 125
C10007 Bachelor of Property Economics ......................... 126
C10011 Bachelor of Property Economics Bachelor of Arts in International Studies .......... 127
C10019 Bachelor of Arts in Adult Education and Community Management .......... 128
C10020 Bachelor of Business Bachelor of Arts in International Studies .......... 129
C10021 Bachelor of Business Bachelor of Arts in International Studies .......... 131
C10026 Bachelor of Business .......... 131
C10027 Bachelor of Business .......... 133
C10039 Bachelor of Management in Events and Leisure .......... 135
C10040 Bachelor of Management in Tourism .......... 136
C10044 Bachelor of Management in Tourism Bachelor of Arts in International Studies .......... 137
C10045 Bachelor of Management in Tourism Bachelor of Arts in International Studies .......... 137
C10046 Bachelor of Management in Tourism Bachelor of Arts in International Studies .......... 138
C10048 Bachelor of Management in Tourism and Hospitality .......... 139
C10061 Bachelor of Engineering Diploma in Engineering Practice .......... 140
C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice .......... 146
C10063 Bachelor of Engineering Bachelor of Arts in International Studies .......... 147
C10065 Bachelor of Engineering Bachelor of Business .......... 148
Bachelor of Engineering Science ........................................ 149
Bachelor of Engineering ............................................. 152
Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice ........................................ 157
Bachelor of Engineering Science in Aerospace Operations .................................................. 159
Bachelor of Engineering Bachelor of Science .......................... 160
Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice ........................................ 166
Bachelor of Engineering Bachelor of Medical Science .................................................. 167
Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice ........................................ 169
Bachelor of Engineering Bachelor of Biotechnology ............................................ 170
Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice ........................................ 171
Bachelor of Biomedical Science ......................................... 172
Bachelor of Nursing .................................................... 173
Bachelor of Nursing Bachelor of Arts in International Studies ........................................ 178
Bachelor of Laws ...................................................... 179
Bachelor of Business Bachelor of Laws ........................................ 181
Bachelor of Science Bachelor of Laws ........................................ 182
Bachelor of Laws Bachelor of Arts in International Studies ........................................ 187
Bachelor of Medical Science Bachelor of Laws ........................................ 189
Bachelor of Engineering Science Bachelor of Laws ........................................ 190
Bachelor of Information Technology ........................................ 192
Bachelor of Science in Information Technology ........................................ 193
Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice ........................................ 196
Bachelor of Mathematics and Finance ........................................ 199
Bachelor of Mathematics and Finance Bachelor of Arts in International Studies ........................................ 200
Bachelor of Mathematics and Computing ........................................ 201
Bachelor of Science Bachelor of Business ........................................ 203
Bachelor of Medical Science Bachelor of Business ........................................ 208
Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies ........................................ 209
Bachelor of Medical Science Bachelor of Arts in International Studies ........................................ 211
Bachelor of Biotechnology Bachelor of Arts in International Studies ........................................ 212
Bachelor of Biotechnology Bachelor of Business ........................................ 214
Bachelor of Biotechnology ............................................. 215
Bachelor of Forensic Biology in Biomedical Science ........................................ 216
Bachelor of Medical Science ............................................. 217
Bachelor of Health Science in Traditional Chinese Medicine ........................................ 218
Bachelor of Education in Primary Education ........................................ 219
Bachelor of Education Bachelor of Arts in International Studies ........................................ 221
Bachelor of Arts in Educational Studies ........................................ 223
Bachelor of Construction Project Management ........................................ 223
Bachelor of Construction Project Management Bachelor of Arts in International Studies ........................................ 224
Bachelor of Construction Project Management Bachelor of Arts in International Studies ........................................ 224
Bachelor of Business Bachelor of Science in Information Technology ........................................ 226
Bachelor of Business Bachelor of Science in Information Technology ........................................ 226
Bachelor of Mathematics and Computing Bachelor of Arts in International Studies ........................................ 229
Bachelor of Mathematics and Computing Bachelor of Arts in International Studies ........................................ 229
Bachelor of Midwifery .................................................. 230
Bachelor of Business .................................................... 232
Bachelor of Science in Environmental Forensics ........................................ 233
Bachelor of Science in Marine Biology ........................................ 234
Bachelor of Science in Games Development ........................................ 235
Bachelor of Accounting .................................................. 237
Bachelor of Science in Information Technology Bachelor of Arts in International Studies ........................................ 238
Bachelor of Science ...................................................... 241
Bachelor of Science Bachelor of Arts in International Studies ........................................ 245
Bachelor of Forensic Science in Applied Chemistry ........................................ 251
Bachelor of Science in Information Technology Bachelor of Laws .................................................. 252
Bachelor of Arts in Communication (Journalism) ........................................ 254
Bachelor of Arts in Communication (Media Arts and Production) ........................................ 255
Bachelor of Arts in Communication (Public Communication) ........................................ 256
Bachelor of Arts in Communication (Writing and Cultural Studies) ........................................ 258
Bachelor of Arts in Communication (Social Inquiry) ........................................ 259
Bachelor of Arts in Communication (Information and Media) ........................................ 260
Bachelor of Arts in Communication (Journalism) and in International Studies ........................................ 262
Bachelor of Arts in Communication (Media Arts and Production) and in International Studies ........................................ 263
Bachelor of Arts in Communication (Public Communication) and in International Studies ........................................ 264
Bachelor of Arts in Communication (Writing and Cultural Studies) and in International Studies ........................................ 266
Bachelor of Arts in Communication (Social Inquiry) and in International Studies ........................................ 267
Bachelor of Arts in Communication (Information and Media) and in International Studies ........................................ 268
Bachelor of Arts in Communication (Journalism) Bachelor of Laws .................................................. 270
Bachelor of Arts in Communication (Media Arts and Production) Bachelor of Laws ........................................ 271
Bachelor of Arts in Communication (Social Inquiry) Bachelor of Laws .................................................. 272
Bachelor of Arts in Communication (Public Communication) Bachelor of Laws ........................................ 274
Bachelor of Arts in Communication (Writing and Cultural Studies) Bachelor of Laws .................................................. 275
Bachelor of Arts in Communication (Information and Media) Bachelor of Laws .................................................. 277
Bachelor of Global Studies .................................................. 278
Bachelor of Design in Photography and Situated Media ........................................ 280
Bachelor of Design in Photography and Situated Media Bachelor of Arts in International Studies ........................................ 281
Bachelor of Sound and Music Design ........................................ 281
Bachelor of Sound and Music Design Bachelor of Arts in International Studies ........................................ 282
Bachelor of Design in Interior and Spatial Design ........................................ 284
Bachelor of Design in Interior and Spatial Design Bachelor of Arts in International Studies ........................................ 285
Bachelor of Design in Animation ............................................. 286
Bachelor of Design in Animation Bachelor of Arts in International Studies ........................................ 287
Bachelor of Human Movement ............................................. 288
Bachelor of Management in Sport and Exercise ........................................ 289
Bachelor of Human Movement Bachelor of Arts in International Studies ........................................ 290
Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies ........................................ 291
Bachelor of Design in Integrated Product Design ........................................ 293
C10305 Bachelor of Design in Integrated Product Design
Bachelor of Arts in International Studies .................. 293
C10306 Bachelor of Design in Fashion and Textiles ......... 295
C10307 Bachelor of Design in Fashion and Textiles Bachelor of Arts in International Studies .................. 295
C10308 Bachelor of Design in Visual Communication ....... 297
C10309 Bachelor of Design in Visual Communication Bachelor of Arts in International Studies .................. 297
C20049 Diploma in Information Technology Professional Practice ........................................... 299

POSTGRADUATE COURSEWORK COURSES

C04006 Master of Project Management .......................... 300
C04007 Master of Planning ........................................ 301
C04008 Master of Property Development .......................... 302
C04018 Master of Business Administration ...................... 303
C04031 Executive Master of Business Administration ......... 305
C04037 Master of Business in Accounting Information Systems .......................... 305
C04038 Master of Business in Accounting and Finance .......... 306
C04048 Master of Business in Finance ............................. 307
C04052 Master of Quantitative Finance ........................... 308
C04067 Master of Business in Marketing ........................... 308
C04085 Master of Engineering Management ...................... 309
C04090 Master of Engineering ....................................... 309
C04094 Master of Engineering Management ...................... 314
C04097 Master of Engineering Studies ............................. 315
C04098 Master of Environmental Engineering Management .... 321
C04102 Master of Engineering Management Master of Business Administration .................. 322
C04106 Master of Arts in Journalism ................................ 323
C04109 Master of Arts in Creative Writing ........................... 324
C04140 Master of Health Services Management .................. 326
C04143 Master of Laws .................................................. 328
C04145 Master of Dispute Resolution ............................... 329
C04147 Master of Legal Studies ......................................... 330
C04149 Master of International Law ................................. 331
C04157 Master of Information Technology ......................... 331
C04158 Master of Interactive Multimedia .......................... 333
C04160 Master of Science in Internetworking .................... 333
C04161 Master of Business in Information Technology Management .................. 335
C04203 Master of Arts in Information and Knowledge Management ........................................... 336
C04207 Master of Engineering Studies Master of Engineering Management .................. 338
C04212 Master of Animation .......................................... 339
C04218 Master of Information Technology (Extended) .......... 340
C04224 Master of Science in Internetworking (Extended) ...... 341
C04226 Master of Business in Operations and Supply Chain Management .................. 342
C04227 Master of Business in Human Resource Management .... 343
C04228 Master of Nursing ............................................. 344
C04229 Master of Business in Management ...................... 346
C04231 Master of Arts .................................................. 347
C04232 Master of Education .......................................... 349
C04235 Master of Architecture ....................................... 353
C04236 Juris Doctor ..................................................... 354
C04237 Master of Professional Accounting Extended ............ 355
C04238 Master of Professional Accounting ......................... 356
C04239 Master of Management ........................................ 357
C04240 Master of Advanced Architecture ......................... 359
C04241 Master of Science ............................................. 360
C04242 Master of Communications Law ............................ 365
C04243 Master of Design ............................................... 366
C04244 Master of Arts in Non-fiction Writing ........................ 367
C04245 Master of Arts in Teaching English to Speakers of Other Languages .................. 368
C04246 Master of Health Services Management and Planning .... 370
C04247 Master of Midwifery ............................................. 371
C04248 Master of Media Arts and Production ........................ 372
C04249 Master of Arts in Training and Human Resource Development ........................................... 373
C04250 Juris Doctor Master of Business Administration ......... 374
C04251 Master of Intellectual Property ............................. 376
C04252 Master of Pharmacy ............................................. 376
C04254 Master of Arts in Communication Management ............ 377
C04258 Master of Business in Finance Extended .................. 382
C04259 Master of Business in Management Extended ............ 382
C04260 Master of Business in Human Resource Management Extended ........................................... 383
C04261 Master of Business in Marketing Extended .................. 384
C04262 Master of Arts in International Studies .................... 384
C06006 Graduate Diploma in Property Development ............... 385
C06009 Graduate Diploma in Business Administration .............. 386
C06017 Graduate Diploma in Event Management .................... 387
C06033 Graduate Diploma in Local Government Management .... 387
C06037 Graduate Diploma in Journalism ............................. 388
C06041 Graduate Diploma in Creative Writing ........................ 389
C06058 Graduate Diploma in Information Technology ............. 390
C06060 Graduate Diploma in Information Technology Management ........................................... 391
C06096 Graduate Diploma in Adult Literacy and Numeracy Teaching .................. 392
C06097 Graduate Diploma in Mathematics and Statistics for Business and Finance .................. 393
C06099 Graduate Diploma in Intellectual Property .................. 394
C06100 Graduate Diploma in Pharmaceutical Sciences ............. 395
C06101 Graduate Diploma in Integrated Communication ............ 395
C06102 Graduate Diploma in Organisational Change and Communication ........................................... 396
C06103 Graduate Diploma in Public Relations ........................ 398
C06105 Graduate Diploma in Communication Management .......... 399
C06106 Graduate Diploma in International Studies ................. 400
C07002 Graduate Diploma in Planning .................................. 401
C07004 Graduate Diploma in Project Management ........................ 402
C07012 Graduate Diploma in Accounting and Finance .................. 402
C07018 Graduate Diploma in Management ............................. 403
C07019 Graduate Diploma in Community and Not-for-Profit Management ........................................... 404
C07021 Graduate Diploma in Finance .................................... 404
C07023 Graduate Diploma in Quantitative Finance .................. 405
C07027 Graduate Diploma in Tourism Management .................. 405
C07028 Graduate Diploma in Arts Management ........................ 406
C07029 Graduate Diploma in Sport Management ..................... 406
C07031 Graduate Diploma in Marketing ............................. 407
C07044 Graduate Diploma in Nursing .................................... 408
C07048 Graduate Diploma in Health Services Management .......... 409
C07070 Graduate Diploma in Midwifery ............................... 410
C07073 Graduate Diploma in Australian Law ........................ 411
C07074 Graduate Diploma in Legal Studies ............................ 412
C07078 Graduate Diploma in Interactive Multimedia .................. 412
C07080 Graduate Diploma in Internetworking ......................... 413
C07107 Graduate Diploma in Information Management ............. 414
C07112 Graduate Diploma in Operations and Supply Chain Management ........................................... 415
C07113 Graduate Diploma in Human Resource Management .......... 416
C07115 Graduate Diploma in Architecture ............................. 417
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C07118</td>
<td>Graduate Diploma in Teaching English to Speakers of Other Languages</td>
<td>417</td>
</tr>
<tr>
<td>C07119</td>
<td>Graduate Diploma in Design</td>
<td>419</td>
</tr>
<tr>
<td>C07120</td>
<td>Graduate Diploma in Media Arts and Production</td>
<td>420</td>
</tr>
<tr>
<td>C07121</td>
<td>Graduate Diploma in Midwifery Studies</td>
<td>421</td>
</tr>
<tr>
<td>C08002</td>
<td>Bachelor of Teaching in Secondary Education</td>
<td>424</td>
</tr>
<tr>
<td>C11001</td>
<td>Graduate Certificate in Property and Planning</td>
<td>421</td>
</tr>
<tr>
<td>C11005</td>
<td>Graduate Certificate in Project Management</td>
<td>422</td>
</tr>
<tr>
<td>C11008</td>
<td>Graduate Certificate in Business Administration</td>
<td>422</td>
</tr>
<tr>
<td>C11015</td>
<td>Graduate Certificate in Accounting and Finance</td>
<td>423</td>
</tr>
<tr>
<td>C11017</td>
<td>Graduate Certificate in Accounting Information Systems</td>
<td>423</td>
</tr>
<tr>
<td>C11021</td>
<td>Graduate Certificate in Management</td>
<td>424</td>
</tr>
<tr>
<td>C11024</td>
<td>Graduate Certificate in Community and Not-for-Profit Management</td>
<td>425</td>
</tr>
<tr>
<td>C11027</td>
<td>Graduate Certificate in Finance</td>
<td>425</td>
</tr>
<tr>
<td>C11033</td>
<td>Graduate Certificate in Arts Management</td>
<td>426</td>
</tr>
<tr>
<td>C11035</td>
<td>Graduate Certificate in Tourism Management</td>
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# LIST OF COURSES BY COURSE AREA

Note: A numerical listing of all courses appears in the contents, see pages 4–9. An alphabetical listing of all courses appears in the index, see page 1064

## BUSINESS

### Undergraduate courses

<table>
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### Courses offered in conjunction with others

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### Postgraduate coursework courses

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<td>Master of Business in Finance Extended</td>
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<td>Master of Business in Management Extended</td>
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### Postgraduate research courses

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## COMMUNICATION

### Undergraduate courses

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### Honours courses

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### Combined courses

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<td>264</td>
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<tr>
<td>C10255</td>
<td>Bachelor of Arts in Communication (Writing and Cultural Studies) and in International Studies</td>
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</table>
C03044 Master of Creative Arts (Research) ................... 492  
C03018 Master of Arts in Humanities and Social  
C02020 Doctor of Creative Arts ............................. 473  
C02019 Doctor of Philosophy ............................... 473  
Postgraduate research courses  
Postgraduate coursework courses  
C04243 Master of Design .................................. 366  
C04212 Master of Animation ............................... 339  
C04245 Master of Architecture ............................. 353  
C04240 Master of Advanced Architecture ................. 359  
C04243 Master of Design ................................. 366  
C06060 Graduate Diploma in Property Development ........ 385  
C06033 Graduate Diploma in Local Government Management .......................... 387  
C07002 Graduate Diploma in Planning ..................... 401  
C07004 Graduate Diploma in Project Management .......... 402  
C07115 Graduate Diploma in Architecture ................ 417  
C07119 Graduate Diploma in Design ........................ 419  
C11001 Graduate Certificate in Property and Planning ... 421  
C11005 Graduate Certificate in Project Management ....... 422  
C11053 Graduate Certificate in Local Government  
C11204 Graduate Certificate in Development Assessment ... 455  
C11212 Graduate Certificate in Architecture ............... 459  
C11215 Graduate Certificate in Local Government Leadership ... 459  
C11225 Graduate Certificate in Design .................... 464  
Postgraduate coursework courses  
C02019 Doctor of Philosophy .............................. 472  
C02051 Doctor of Project Management ..................... 481  
C03001 Master of Architecture [Research] ............... 486  
C03002 Master of Built Environment [Research] ........... 486  
C03012 Master of Design [Research] ........................ 487

Postgraduate coursework courses  
Postgraduate coursework courses  
C04243 Master of Design .................................. 366  
C04240 Master of Advanced Architecture ................. 359  
C04243 Master of Design ................................. 366  
C06060 Graduate Diploma in Property Development ........ 385  
C06033 Graduate Diploma in Local Government Management .......................... 387  
C07002 Graduate Diploma in Planning ..................... 401  
C07004 Graduate Diploma in Project Management .......... 402  
C07115 Graduate Diploma in Architecture ................ 417  
C07119 Graduate Diploma in Design ........................ 419  
C11001 Graduate Certificate in Property and Planning ... 421  
C11005 Graduate Certificate in Project Management ....... 422  
C11053 Graduate Certificate in Local Government  
C11204 Graduate Certificate in Development Assessment ... 455  
C11212 Graduate Certificate in Architecture ............... 459  
C11215 Graduate Certificate in Local Government Leadership ... 459  
C11225 Graduate Certificate in Design .................... 464  

Undergraduate courses  
Undergraduate courses  
C10214 Bachelor of Construction Project Management ....... 223  
C10265 Bachelor of Design in Photography and Situated Media ................................................. 280  
C10271 Bachelor of Design in Interior and Spatial Design ..................................................... 284  
C10273 Bachelor of Design in Animation .................... 286  
C10304 Bachelor of Design in Integrated Product Design ......................... 293  
C10306 Bachelor of Design in Fashion and Textiles .......... 295  
C10308 Bachelor of Design in Visual Communication ....... 297  
Honours courses  
C09047 Bachelor of Design [Honours] in Architecture ....... 125  
C09052 Bachelor of Design [Honours] in Photography and Situated Media ................................................. 119  
C09053 Bachelor of Design [Honours] in Interior and Spatial Design ..................................................... 120  

EDUCATION  
Undergraduate courses  
C08002 Bachelor of Teaching in Secondary Education ........ 468  
C10206 Bachelor of Education in Primary Education .......... 219  
C10209 Bachelor of Arts in Educational Studies ............ 223  
Combined courses  
C10208 Bachelor of Education Bachelor of Arts in  
C10209 Bachelor of Arts in Educational Studies ............ 223  
Combined courses  
C10208 Bachelor of Education Bachelor of Arts in  
C10209 Bachelor of Arts in Educational Studies ............ 223  

Courses offered in conjunction with others  
C10019 Bachelor of Arts in Adult Education and Community Management ............. 128

Postgraduate coursework courses  
C04231 Master of Arts ..................................... 347  
C04232 Master of Education .............................. 349

List of courses by course area
Postgraduate research courses
C02037 Doctor of Philosophy ........................................... 478
C03032 Master of Sustainable Futures [Research] .................. 491

HEALTH
Undergraduate courses
C10122 Bachelor of Nursing ........................................... 173
C10225 Bachelor of Midwifery .......................................... 230
C10300 Bachelor of Human Movement .............................. 288
C10301 Bachelor of Management in Sport and Exercise .......... 289

Honours courses
C09018 Bachelor of Nursing [Honours] ............................... 111
C09051 Bachelor of Midwifery [Honours] ............................ 119
C09057 Bachelor of Human Movement [Honours] .................. 121
C09058 Bachelor of Management [Honours] in Sport and Exercise 122

Combined courses
C10123 Bachelor of Nursing Bachelor of Arts in International Studies ............... 290
C10302 Bachelor of Human Movement Bachelor of Arts in International Studies 291

Postgraduate coursework courses
C04140 Master of Health Services Management ...................... 326
C04228 Master of Nursing .............................................. 344
C04246 Master of Health Services Management and Planning .... 370
C04247 Master of Midwifery ........................................... 371
C07044 Graduate Diploma in Nursing ................................ 408
C07048 Graduate Diploma in Health Services Management ....... 409
C07070 Graduate Diploma in Midwifery ............................... 410
C11121 Graduate Diploma in Midwifery Studies ..................... 421
C11112 Graduate Certificate in Mental Health Nursing ............ 437
C11107 Graduate Certificate in Health Services Management .... 438
C11109 Graduate Certificate in Clinical Management .............. 439
C11115 Graduate Certificate in Diabetes Education and Management 439
C11116 Graduate Certificate in Perioperative Nursing .............. 440
C11111 Graduate Certificate in Anaesthetics and Recovery Room Nursing 441
C11118 Graduate Certificate in Critical Care Nursing ............... 441
C11119 Graduate Certificate in Neuroscience Nursing ............. 442
C11114 Graduate Certificate in Children’s Nursing ................. 451
C11115 Graduate Certificate in Clinical Teaching .................... 451
C11116 Graduate Certificate in Neonatal Nursing .................... 452
C11200 Graduate Certificate in Child and Family Health Nursing 454
C11201 Graduate Certificate in Acute Care Nursing ................. 455
C11226 Graduate Certificate in Midwifery Studies .................... 465

Postgraduate research courses
C02024 Doctor of Philosophy ............................................ 474
C02052 Doctor of Nursing ................................................. 482
C02053 Doctor of Midwifery ............................................. 483
C02054 Doctor of Health Services ....................................... 484
C03048 Master of Nursing [Research] ................................. 493
C03049 Master of Midwifery [Research] ............................... 494
C03050 Master of Health Services [Research] ......................... 494
C03052 Master of Sport and Exercise [Research] ....................... 496
## INFORMATION TECHNOLOGY

### Undergraduate courses
- C10143 Bachelor of Information Technology ........................................... 192
- C10148 Bachelor of Science in Information Technology .............................. 193
- C10152 Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice .................. 196
- C10229 Bachelor of Science in Games Development .................................. 235
- C20049 Diploma in Information Technology Professional Practice ................ 299

### Honours courses
- C09019 Bachelor of Science (Honours) in Information Technology .................. 111

### Combined courses
- C10219 Bachelor of Business Bachelor of Science in Information Technology ........ 226
- C10239 Bachelor of Science in Information Technology Bachelor of Arts in International Studies ......................... 238
- C10245 Bachelor of Science in Information Technology Bachelor of Laws ................ 252

### Postgraduate coursework courses
- C04157 Master of Information Technology ........................................... 331
- C04158 Master of Interactive Multimedia ............................................ 333
- C04160 Master of Science in Internetworking ........................................ 333
- C04161 Master of Business in Information Technology Management .............. 335
- C04218 Master of Information Technology (Extended) ................................ 340
- C04224 Master of Science in Internetworking (Extended) .......................... 341
- C06058 Graduate Diploma in Information Technology .................................. 390
- C06060 Graduate Diploma in Information Technology Management .................. 391
- C07078 Graduate Diploma in Interactive Multimedia .................................. 412
- C07080 Graduate Diploma in Internetworking .......................................... 413
- C11138 Graduate Certificate in Information Technology Management .............. 446
- C11142 Graduate Certificate in Information Technology ................................ 447
- C11143 Graduate Certificate in Interactive Multimedia ................................ 448
- C11145 Graduate Certificate in Internetworking ........................................ 449
- C11190 Graduate Certificate in Strategic IT Leadership ................................ 449
- C11192 Graduate Certificate in Information Technology Project Management .......... 450

### Postgraduate research courses
- C02029 Doctor of Philosophy .................................................................. 476
- C02047 Doctor of Philosophy .................................................................. 476
- C03025 Master of Science in Computing Sciences (Research) .......................... 489
- C03051 Master of Analytics (Research) ..................................................... 495

## INTERNATIONAL STUDIES

### Undergraduate courses
- C10246 Bachelor of Global Studies ......................................................... 278

### Combined courses
- C10011 Bachelor of Property Economics Bachelor of Arts in International Studies .......................... 127
- C10020 Bachelor of Business Bachelor of Arts in International Studies ............ 129
- C10021 Bachelor of Business Bachelor of Arts in International Studies ............ 131
- C10044 Bachelor of Management in Tourism Bachelor of Arts in International Studies .................................................. 137
- C10045 Bachelor of Management in Events and Leisure Bachelor of Arts in International Studies ............ 138
- C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice .................. 146
- C10063 Bachelor of Engineering Bachelor of Arts in International Studies .................. 147
- C10123 Bachelor of Nursing Bachelor of Arts in International Studies .................. 178

C10129 Bachelor of Laws Bachelor of Arts in International Studies .......................... 187
C10157 Bachelor of Mathematics and Finance Bachelor of Arts in International Studies .......................... 200
C10164 Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies .......................... 209
C10167 Bachelor of Medical Science Bachelor of Arts in International Studies .......................... 211
C10168 Bachelor of Biotechnology Bachelor of Arts in International Studies .......................... 212
C10208 Bachelor of Education Bachelor of Arts in International Studies .......................... 221
C10215 Bachelor of Construction Project Management Bachelor of Arts in International Studies .......................... 224
C10224 Bachelor of Mathematics and Computing Bachelor of Arts in International Studies .......................... 229
C10239 Bachelor of Science in Information Technology Bachelor of Arts in International Studies .......................... 238
C10243 Bachelor of Science Bachelor of Arts in International Studies .......................... 245
C10252 Bachelor of Arts in Communication (Journalism) and in International Studies .......................... 262
C10253 Bachelor of Arts in Communication (Media Arts and Production) and in International Studies .......................... 263
C10254 Bachelor of Arts in Communication (Public Communication) and in International Studies .......................... 264
C10255 Bachelor of Arts in Communication (Writing and Cultural Studies) and in International Studies .......................... 266
C10256 Bachelor of Arts in Communication (Social Inquiry) and in International Studies .......................... 267
C10257 Bachelor of Arts in Communication (Information and Media) and in International Studies .......................... 268
C10266 Bachelor of Design in Photography and Situated Media Bachelor of Arts in International Studies .................................................. 281
C10270 Bachelor of Sound and Music Design Bachelor of Arts in International Studies .......................... 282
C10272 Bachelor of Design in Interior and Spatial Design Bachelor of Arts in International Studies .................................................. 285
C10274 Bachelor of Design in Animation Bachelor of Arts in International Studies .................................................. 287
C10302 Bachelor of Human Movement Bachelor of Arts in International Studies .................................................. 290
C10303 Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies .................................................. 291
C10305 Bachelor of Design in Integrated Product Design Bachelor of Arts in International Studies .................................................. 293
C10307 Bachelor of Design in Fashion and Textiles Bachelor of Arts in International Studies .................................................. 295
C10309 Bachelor of Design in Visual Communication Bachelor of Arts in International Studies .................................................. 297

### Postgraduate research courses
- C02039 Doctor of Philosophy .................................................................. 478
- C03034 Master of Arts in International Studies (Research) .......................... 491

## LAW

### Undergraduate courses
- C10124 Bachelor of Laws ......................................................................... 179

### Combined courses
- C10125 Bachelor of Business Bachelor of Laws ........................................ 181
- C10126 Bachelor of Science Bachelor of Laws ........................................ 182
- C10127 Bachelor of Laws Bachelor of Arts in International Studies .......................... 187
- C10131 Bachelor of Medical Science Bachelor of Laws ................................ 189
- C10136 Bachelor of Engineering Science Bachelor of Laws .......................... 190
- C10245 Bachelor of Science in Information Technology Bachelor of Laws .................................................. 252
- C10258 Bachelor of Arts in Communication (Journalism) Bachelor of Laws .................................................. 270
- C10259 Bachelor of Arts in Communication (Media Arts and Production) Bachelor of Laws .................................................. 271
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C03024</td>
<td>Master of Laws (Research)</td>
<td>488</td>
</tr>
<tr>
<td>C02028</td>
<td>Doctor of Philosophy</td>
<td>475</td>
</tr>
<tr>
<td>C02027</td>
<td>Doctor of Juridical Science</td>
<td>474</td>
</tr>
<tr>
<td></td>
<td>Postgraduate research courses</td>
<td></td>
</tr>
<tr>
<td>C11232</td>
<td>Graduate Certificate in Professional Legal Practice</td>
<td>467</td>
</tr>
<tr>
<td>C11229</td>
<td>Graduate Certificate in Intellectual Property</td>
<td>466</td>
</tr>
<tr>
<td>C11211</td>
<td>Graduate Certificate in Australian Law</td>
<td>458</td>
</tr>
<tr>
<td>C11217</td>
<td>Graduate Certificate in Communications Law</td>
<td>461</td>
</tr>
<tr>
<td>C11229</td>
<td>Graduate Certificate in Intellectual Property</td>
<td>466</td>
</tr>
<tr>
<td>C11216</td>
<td>Graduate Certificate in Science</td>
<td>460</td>
</tr>
<tr>
<td>C04252</td>
<td>Master of Laws</td>
<td>376</td>
</tr>
<tr>
<td>C06100</td>
<td>Graduate Diploma in Pharmaceutical Sciences</td>
<td>395</td>
</tr>
<tr>
<td>C11230</td>
<td>Graduate Certificate in Pharmaceutical Sciences</td>
<td>467</td>
</tr>
<tr>
<td></td>
<td>Postgraduate research courses</td>
<td></td>
</tr>
<tr>
<td>C02027</td>
<td>Bachelor of Juridical Science</td>
<td>474</td>
</tr>
<tr>
<td>C02028</td>
<td>Bachelor of Philosophy</td>
<td>475</td>
</tr>
<tr>
<td>C03024</td>
<td>Master of Laws [Research]</td>
<td>488</td>
</tr>
<tr>
<td></td>
<td>Pharmacy</td>
<td></td>
</tr>
<tr>
<td>C03029</td>
<td>Bachelor of Science [Honours] in Environmental Science</td>
<td>115</td>
</tr>
<tr>
<td>C09031</td>
<td>Bachelor of Medical Science [Honours]</td>
<td>116</td>
</tr>
<tr>
<td>C09035</td>
<td>Bachelor of Science [Honours] in Applied Physics</td>
<td>116</td>
</tr>
<tr>
<td>C09046</td>
<td>Bachelor of Science [Honours] in Nanotechnology</td>
<td>117</td>
</tr>
<tr>
<td>C09050</td>
<td>Bachelor of Forensic Science [Honours] in Applied Chemistry</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>Combined courses</td>
<td></td>
</tr>
<tr>
<td>C10073</td>
<td>Bachelor of Engineering Bachelor of Science</td>
<td>160</td>
</tr>
<tr>
<td>C10074</td>
<td>Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice</td>
<td>166</td>
</tr>
<tr>
<td>C10075</td>
<td>Bachelor of Engineering Bachelor of Medical Science</td>
<td>167</td>
</tr>
<tr>
<td>C10076</td>
<td>Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice</td>
<td>169</td>
</tr>
<tr>
<td>C10078</td>
<td>Bachelor of Engineering Bachelor of Biotechnology</td>
<td>170</td>
</tr>
<tr>
<td>C10079</td>
<td>Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice</td>
<td>171</td>
</tr>
<tr>
<td>C10126</td>
<td>Bachelor of Science Bachelor of Laws</td>
<td>182</td>
</tr>
<tr>
<td>C10131</td>
<td>Bachelor of Medical Science Bachelor of Laws</td>
<td>189</td>
</tr>
<tr>
<td>C10157</td>
<td>Bachelor of Mathematics and Finance Bachelor of Arts in International Studies</td>
<td>200</td>
</tr>
<tr>
<td>C10162</td>
<td>Bachelor of Science Bachelor of Business</td>
<td>203</td>
</tr>
<tr>
<td>C10163</td>
<td>Bachelor of Medical Science Bachelor of Business</td>
<td>208</td>
</tr>
<tr>
<td>C10164</td>
<td>Bachelor of Health Science in Traditional Chinese Medicine</td>
<td>209</td>
</tr>
<tr>
<td>C10167</td>
<td>Bachelor of Medical Science Bachelor of Arts in International Studies</td>
<td>211</td>
</tr>
<tr>
<td>C10168</td>
<td>Bachelor of Biotechnology Bachelor of Arts in International Studies</td>
<td>212</td>
</tr>
<tr>
<td>C10169</td>
<td>Bachelor of Biotechnology Bachelor of Business</td>
<td>214</td>
</tr>
<tr>
<td>C10224</td>
<td>Bachelor of Mathematics and Computing Bachelor of Arts in International Studies</td>
<td>229</td>
</tr>
<tr>
<td>C10243</td>
<td>Bachelor of Science Bachelor of Arts in International Studies</td>
<td>245</td>
</tr>
<tr>
<td></td>
<td>Postgraduate coursework courses</td>
<td></td>
</tr>
<tr>
<td>C04241</td>
<td>Master of Science</td>
<td>360</td>
</tr>
<tr>
<td>C06097</td>
<td>Graduate Diploma in Mathematics and Statistics for Business and Finance</td>
<td>393</td>
</tr>
<tr>
<td>C11210</td>
<td>Graduate Certificate in Mathematics</td>
<td>457</td>
</tr>
<tr>
<td>C11216</td>
<td>Graduate Certificate in Science</td>
<td>460</td>
</tr>
<tr>
<td></td>
<td>Undergraduate courses</td>
<td></td>
</tr>
<tr>
<td>C10115</td>
<td>Bachelor of Biomedical Science</td>
<td>172</td>
</tr>
<tr>
<td>C10155</td>
<td>Bachelor of Mathematics and Finance</td>
<td>199</td>
</tr>
<tr>
<td>C10158</td>
<td>Bachelor of Mathematics and Computing</td>
<td>201</td>
</tr>
<tr>
<td>C10172</td>
<td>Bachelor of Biotechnology</td>
<td>215</td>
</tr>
<tr>
<td>C10174</td>
<td>Bachelor of Forensic Biology in Biomedical Science</td>
<td>216</td>
</tr>
<tr>
<td>C10184</td>
<td>Bachelor of Medical Science</td>
<td>217</td>
</tr>
<tr>
<td>C10186</td>
<td>Bachelor of Health Science in Traditional Chinese Medicine</td>
<td>218</td>
</tr>
<tr>
<td>C10027</td>
<td>Bachelor of Science in Environmental Forensics</td>
<td>233</td>
</tr>
<tr>
<td>C10226</td>
<td>Bachelor of Science in Marine Biology</td>
<td>234</td>
</tr>
<tr>
<td>C10242</td>
<td>Bachelor of Science</td>
<td>241</td>
</tr>
<tr>
<td>C10244</td>
<td>Bachelor of Forensic Science in Applied Chemistry</td>
<td>251</td>
</tr>
<tr>
<td></td>
<td>Honours courses</td>
<td></td>
</tr>
<tr>
<td>C09020</td>
<td>Bachelor of Science [Honours] in Mathematics</td>
<td>112</td>
</tr>
<tr>
<td>C09021</td>
<td>Bachelor of Mathematics and Finance [Honours]</td>
<td>113</td>
</tr>
<tr>
<td>C09022</td>
<td>Bachelor of Biotechnology [Honours]</td>
<td>113</td>
</tr>
<tr>
<td>C09023</td>
<td>Bachelor of Science [Honours] in Biomedical Science</td>
<td>114</td>
</tr>
<tr>
<td>C09026</td>
<td>Bachelor of Science [Honours] in Applied Chemistry</td>
<td>114</td>
</tr>
<tr>
<td>C09029</td>
<td>Bachelor of Science [Honours] in Environmental Science</td>
<td>115</td>
</tr>
<tr>
<td>C09031</td>
<td>Bachelor of Medical Science [Honours]</td>
<td>116</td>
</tr>
<tr>
<td>C09035</td>
<td>Bachelor of Science [Honours] in Applied Physics</td>
<td>116</td>
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<tr>
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<td>Bachelor of Science [Honours] in Nanotechnology</td>
<td>117</td>
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<td>Bachelor of Forensic Science [Honours] in Applied Chemistry</td>
<td>118</td>
</tr>
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<td>C10073</td>
<td>Bachelor of Engineering Bachelor of Science</td>
<td>160</td>
</tr>
<tr>
<td>C10074</td>
<td>Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice</td>
<td>166</td>
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<tr>
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<td>Bachelor of Engineering Bachelor of Medical Science</td>
<td>167</td>
</tr>
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<td>Bachelor of Engineering Bachelor of Biotechnology</td>
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</tr>
<tr>
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<td>Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice</td>
<td>171</td>
</tr>
<tr>
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<td>Bachelor of Science Bachelor of Laws</td>
<td>182</td>
</tr>
<tr>
<td>C10131</td>
<td>Bachelor of Medical Science Bachelor of Laws</td>
<td>189</td>
</tr>
<tr>
<td>C10157</td>
<td>Bachelor of Mathematics and Finance Bachelor of Arts in International Studies</td>
<td>200</td>
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<td>Bachelor of Science Bachelor of Business</td>
<td>203</td>
</tr>
<tr>
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<td>Bachelor of Medical Science Bachelor of Business</td>
<td>208</td>
</tr>
<tr>
<td>C10164</td>
<td>Bachelor of Health Science in Traditional Chinese Medicine</td>
<td>209</td>
</tr>
<tr>
<td>C10167</td>
<td>Bachelor of Medical Science Bachelor of Arts in International Studies</td>
<td>211</td>
</tr>
<tr>
<td>C10168</td>
<td>Bachelor of Biotechnology Bachelor of Arts in International Studies</td>
<td>212</td>
</tr>
<tr>
<td>C10169</td>
<td>Bachelor of Biotechnology Bachelor of Business</td>
<td>214</td>
</tr>
<tr>
<td>C10224</td>
<td>Bachelor of Mathematics and Computing Bachelor of Arts in International Studies</td>
<td>229</td>
</tr>
<tr>
<td>C10243</td>
<td>Bachelor of Science Bachelor of Arts in International Studies</td>
<td>245</td>
</tr>
<tr>
<td>C04241</td>
<td>Master of Science</td>
<td>360</td>
</tr>
<tr>
<td>C06097</td>
<td>Graduate Diploma in Mathematics and Statistics for Business and Finance</td>
<td>393</td>
</tr>
<tr>
<td>C11210</td>
<td>Graduate Certificate in Mathematics</td>
<td>457</td>
</tr>
<tr>
<td>C11216</td>
<td>Graduate Certificate in Science</td>
<td>460</td>
</tr>
<tr>
<td>C02030</td>
<td>Doctor of Philosophy</td>
<td>477</td>
</tr>
<tr>
<td>C02031</td>
<td>Doctor of Philosophy</td>
<td>477</td>
</tr>
<tr>
<td>C03026</td>
<td>Master of Science [Research]</td>
<td>490</td>
</tr>
<tr>
<td>C03026</td>
<td>Master of Science [Research]</td>
<td>490</td>
</tr>
</tbody>
</table>
### LIST OF COURSES BY FACULTY

**Note:** A numerical listing of all courses appears in the contents, see pages 4–9. An alphabetical listing of all courses appears in the index, see page 1064

#### FACULTY OF ARTS AND SOCIAL SCIENCES

**Undergraduate courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10253</td>
<td>Bachelor of Arts in Communication (Media Arts and Production)</td>
</tr>
<tr>
<td>C10252</td>
<td>Bachelor of Arts in Communication (Journalism)</td>
</tr>
<tr>
<td>C10249</td>
<td>Bachelor of Arts in Communication (Writing and Cultural Studies)</td>
</tr>
<tr>
<td>C10272</td>
<td>Bachelor of Arts in Communication (Social Inquiry) and in International Studies</td>
</tr>
<tr>
<td>C10247</td>
<td>Bachelor of Arts in Communication (Media Arts and Production)</td>
</tr>
<tr>
<td>C10248</td>
<td>Bachelor of Arts in Communication (Public Communication)</td>
</tr>
<tr>
<td>C10249</td>
<td>Bachelor of Arts in Communication (Writing and Cultural Studies)</td>
</tr>
<tr>
<td>C10250</td>
<td>Bachelor of Arts in Communication (Social Inquiry)</td>
</tr>
<tr>
<td>C10251</td>
<td>Bachelor of Arts in Communication (Information and Media)</td>
</tr>
<tr>
<td>C10264</td>
<td>Bachelor of Global Studies</td>
</tr>
<tr>
<td>C10269</td>
<td>Bachelor of Sound and Music Design</td>
</tr>
</tbody>
</table>

**Honours courses**

<table>
<thead>
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<th>Course Code</th>
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<tbody>
<tr>
<td>C09009</td>
<td>Bachelor of Arts (Honours) in Communication</td>
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**Combined courses**

<table>
<thead>
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<th>Course Code</th>
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<tbody>
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<td>C10011</td>
<td>Bachelor of Property Economics Bachelor of Arts in International Studies</td>
</tr>
<tr>
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<td>Bachelor of Business Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10021</td>
<td>Bachelor of Business Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10044</td>
<td>Bachelor of Management in Tourism Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10045</td>
<td>Bachelor of Management in Events and Leisure Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10062</td>
<td>Bachelor of Engineering Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10063</td>
<td>Bachelor of Engineering Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10123</td>
<td>Bachelor of Nursing Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10129</td>
<td>Bachelor of Laws Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10157</td>
<td>Bachelor of Mathematics and Finance Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10164</td>
<td>Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10167</td>
<td>Bachelor of Medical Science Bachelor of Arts in International Studies</td>
</tr>
<tr>
<td>C10168</td>
<td>Bachelor of Biotechnology Bachelor of Arts in International Studies</td>
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<td>C10208</td>
<td>Bachelor of Education Bachelor of Arts in International Studies</td>
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<td>Bachelor of Construction Project Management Bachelor of Arts in International Studies</td>
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<td>Bachelor of Mathematics and Computing Bachelor of Arts in International Studies</td>
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<td>Bachelor of Science Bachelor of Arts in International Studies</td>
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<tr>
<td>C10252</td>
<td>Bachelor of Arts in Communication (Journalism) and in International Studies</td>
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<tr>
<td>C10253</td>
<td>Bachelor of Arts in Communication (Media Arts and Production) and in International Studies</td>
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</table>

**C10254** Bachelor of Arts in Communication (Public Communication) and in International Studies

**C10255** Bachelor of Arts in Communication (Writing and Cultural Studies) and in International Studies

**C10256** Bachelor of Arts in Communication (Social Inquiry) and in International Studies

**C10257** Bachelor of Arts in Communication (Information and Media) and in International Studies

**C10258** Bachelor of Arts in Communication (Journalism) Bachelor of Laws

**C10259** Bachelor of Arts in Communication (Media Arts and Production) Bachelor of Laws

**C10260** Bachelor of Arts in Communication (Social Inquiry) Bachelor of Laws

**C10261** Bachelor of Arts in Communication (Public Communication) Bachelor of Laws

**C10262** Bachelor of Arts in Communication (Writing and Cultural Studies) Bachelor of Laws

**C10263** Bachelor of Arts in Communication (Information and Media) Bachelor of Laws

**C10266** Bachelor of Design in Photography and Situated Media Bachelor of Arts in International Studies

**C10270** Bachelor of Sound and Music Design Bachelor of Arts in International Studies

**C10272** Bachelor of Design in Interior and Spatial Design Bachelor of Arts in International Studies

**C10274** Bachelor of Design in Animation Bachelor of Arts in International Studies

**C10302** Bachelor of Human Movement Bachelor of Arts in International Studies

**C10303** Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies

**C10305** Bachelor of Design in Integrated Product Design Bachelor of Arts in International Studies

**C10307** Bachelor of Design in Fashion and Textiles Bachelor of Arts in International Studies

**C10309** Bachelor of Design in Visual Communication Bachelor of Arts in International Studies

**Courses offered in conjunction with others**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10019</td>
<td>Bachelor of Arts in Adult Education and Community Management</td>
</tr>
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</table>

**Postgraduate coursework courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
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<tbody>
<tr>
<td>C04106</td>
<td>Master of Arts in Journalism</td>
</tr>
<tr>
<td>C04109</td>
<td>Master of Arts in Creative Writing</td>
</tr>
<tr>
<td>C04203</td>
<td>Master of Arts in Information and Knowledge Management</td>
</tr>
<tr>
<td>C04231</td>
<td>Master of Arts</td>
</tr>
<tr>
<td>C04232</td>
<td>Master of Education</td>
</tr>
<tr>
<td>C04244</td>
<td>Master of Arts in Non-fiction Writing</td>
</tr>
<tr>
<td>C04245</td>
<td>Master of Arts in Teaching English to Speakers of Other Languages</td>
</tr>
<tr>
<td>C04248</td>
<td>Master of Media Arts and Production</td>
</tr>
<tr>
<td>C04249</td>
<td>Master of Arts in Training and Human Resource Development</td>
</tr>
<tr>
<td>C04254</td>
<td>Master of Arts in Communication Management</td>
</tr>
<tr>
<td>C04262</td>
<td>Master of Arts in International Studies</td>
</tr>
<tr>
<td>C06037</td>
<td>Graduate Diploma in Journalism</td>
</tr>
<tr>
<td>C06041</td>
<td>Graduate Diploma in Creative Writing</td>
</tr>
<tr>
<td>C06096</td>
<td>Graduate Diploma in Adult Literacy and Numeracy Teaching</td>
</tr>
<tr>
<td>C06101</td>
<td>Graduate Diploma in Integrated Communication</td>
</tr>
</tbody>
</table>
C06102 Graduate Diploma in Organisational Change and Communication ........................................ 396
C06103 Graduate Diploma in Public Relations ................................................................. 398
C06105 Graduate Diploma in Communication Management ............................................. 399
C06106 Graduate Diploma in International Studies .......................................................... 400
C07107 Graduate Diploma in Information Management .................................................... 414
C07118 Graduate Diploma in Teaching English to Speakers of Other Languages ..................... 417
C07120 Graduate Diploma in Media Arts and Production ................................................. 420
C08002 Bachelor of Teaching in Secondary Education .................................................... 448
C11058 Graduate Certificate in Journalism ...................................................................... 453
C11066 Graduate Certificate in Screenwriting .................................................................. 456
C11071 Graduate Certificate in Editing and Publishing ..................................................... 457
C11220 Graduate Certificate in Adult Numeracy Teaching .............................................. 481
C11221 Graduate Certificate in Adult Education ............................................................... 482
C11223 Graduate Certificate in Teaching English to Speakers of Other Languages ............... 463
C11227 Graduate Certificate in Media Arts and Production .............................................. 465
C11228 Graduate Certificate in Higher Education Teaching and Learning ................................ 466

Courses offered in conjunction with others
C04212 Master of Animation ............................................................................................. 339

Postgraduate research courses
C02019 Doctor of Philosophy ............................................................................................ 473
C02020 Doctor of Creative Arts .......................................................................................... 473
C02039 Doctor of Philosophy ............................................................................................ 478
C02041 Doctor of Philosophy ............................................................................................ 479
C02050 Doctor of Education ............................................................................................. 481
C02055 Doctor of Education ............................................................................................. 485
C03018 Master of Arts in Humanities and Social Sciences (Research) ................................ 488
C03034 Master of Arts in International Studies (Research) ............................................. 491
C03044 Master of Creative Arts (Research) ...................................................................... 492
C03047 Master of Education (Research) .......................................................................... 493

FACULTY OF BUSINESS

Undergraduate courses
C10019 Bachelor of Arts in Adult Education and Community Management ..................... 128
C10026 Bachelor of Business ............................................................................................. 131
C10027 Bachelor of Business ............................................................................................. 133
C10039 Bachelor of Management in Events and Leisure ..................................................... 135
C10040 Bachelor of Management in Tourism .................................................................. 136
C10048 Bachelor of Management in Tourism and Hospitality .......................................... 139
C10226 Bachelor of Business ........................................................................................... 232
C10235 Bachelor of Accounting ....................................................................................... 237

Honours courses
C09004 Bachelor of Business (Honours) ......................................................................... 108
C09005 Bachelor of Management (Honours) in Events and Leisure .................................. 109
C09007 Bachelor of Management (Honours) in Tourism .................................................. 109

Combined courses
C10020 Bachelor of Business Bachelor of Arts in International Studies .......................... 129
C10021 Bachelor of Business Bachelor of Arts in International Studies .......................... 131
C10044 Bachelor of Management in Tourism Bachelor of Arts in International Studies .... 137
C10045 Bachelor of Management in Events and Leisure Bachelor of Arts in International Studies .......................................................... 138
C10065 Bachelor of Engineering Bachelor of Business ................................................... 148
C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice .... 157
C10125 Bachelor of Business Bachelor of Laws .................................................................. 181
C10162 Bachelor of Science Bachelor of Business ........................................................... 203

C10163 Bachelor of Medical Science Bachelor of Business .............................................. 208
C10169 Bachelor of Biotechnology Bachelor of Business .................................................. 214
C10219 Bachelor of Business Bachelor of Science in Information Technology .................. 226

Courses offered in conjunction with others
C10155 Bachelor of Mathematics and Finance ................................................................. 199

Postgraduate coursework courses
C04018 Master of Business Administration ....................................................................... 303
C04031 Executive Master of Business Administration .................................................... 305
C04037 Master of Business in Accounting Information Systems .................................... 305
C04038 Master of Business in Accounting and Finance .................................................. 306
C04048 Master of Business in Finance ............................................................................ 307
C04052 Master of Quantitative Finance ............................................................................ 308
C04067 Master of Business in Marketing ........................................................................ 309
C04226 Master of Business in Operations and Supply Chain Management ..................... 342
C04227 Master of Business in Human Resource Management ........................................ 343
C04229 Master of Business in Management ..................................................................... 346
C04237 Master of Professional Accounting Extended .................................................... 355
C04238 Master of Professional Accounting ..................................................................... 356
C04239 Master of Management ........................................................................................ 357
C04259 Master of Business in Management Extended ..................................................... 382
C04260 Master of Business in Human Resource Management Extended ......................... 383
C04009 Graduate Diploma in Business Administration ..................................................... 386
C06017 Graduate Diploma in Event Management ............................................................. 387
C07012 Graduate Diploma in Accounting and Finance ..................................................... 402
C07018 Graduate Diploma in Management ....................................................................... 403
C07019 Graduate Diploma in Community and Not-for-Profit Management ...................... 404
C07021 Graduate Diploma in Finance .............................................................................. 404
C07022 Graduate Diploma in Quantitative Finance ........................................................... 405
C07027 Graduate Diploma in Tourism Management ......................................................... 405
C07028 Graduate Diploma in Arts Management .............................................................. 406
C07029 Graduate Diploma in Sport Management ............................................................. 406
C07031 Graduate Diploma in Marketing ........................................................................... 407
C07112 Graduate Diploma in Operations and Supply Chain Management ....................... 415
C07113 Graduate Diploma in Human Resource Management .......................................... 416
C11008 Graduate Certificate in Business Administration .................................................. 422
C11015 Graduate Certificate in Accounting and Finance .................................................. 423
C11017 Graduate Certificate in Accounting Information Systems .................................. 423
C11021 Graduate Certificate in Management .................................................................... 424
C11024 Graduate Certificate in Community and Not-for-Profit Management .................... 425
C11027 Graduate Certificate in Finance ............................................................................ 425
C11033 Graduate Certificate in Arts Management ............................................................. 426
C11035 Graduate Certificate in Tourism Management ...................................................... 426
C11037 Graduate Certificate in Sport Management ........................................................... 427
C11038 Graduate Certificate in Event Management ........................................................... 427
C11039 Graduate Certificate in Marketing ........................................................................ 428
C11198 Graduate Certificate in Human Resource Management ....................................... 453
C11199 Graduate Certificate in Operations and Supply Chain Management .................... 453
C11206 Graduate Certificate in Professional Accounting .................................................. 456
C11208 Graduate Certificate in Executive Business Administration .................................. 457

Courses offered in conjunction with others
C04094 Master of Engineering Management .................................................................... 314
C04102 Master of Engineering Management Master of Business Administration .................. 322
C04250 Juris Doctor Master of Business Administration ................................................. 374
C04258 Master of Business in Finance Extended ............................................................. 382
C04258 Master of Business in Finance Extended .......................... 382
C04261 Master of Business in Marketing Extended .................... 384
C04261 Master of Business in Marketing Extended .................... 384
Postgraduate research courses
C02048 Doctor of Philosophy ........................................ 480
C03046 Master of Business (Research) ................................ 492

FACULTY OF DESIGN, ARCHITECTURE AND BUILDING

Undergraduate courses
C10004 Bachelor of Design in Architecture .................................. 125
C10007 Bachelor of Property Economics .................................. 126
C10214 Bachelor of Construction Project Management ............... 223
C10265 Bachelor of Design in Photography and Situated Media ........ 280
C10271 Bachelor of Design in Interior and Spatial Design ........... 284
C10273 Bachelor of Design in Animation .................................. 286
C10304 Bachelor of Design in Integrated Product Design ............ 293
C10306 Bachelor of Design in Fashion and Textiles .................... 295
C10308 Bachelor of Design in Visual Communication ................ 297

Honours courses
C09048 Bachelor of Design (Honours) in Architecture .............. 117
C09052 Bachelor of Design (Honours) in Photography and Situated Media ................. 119
C09055 Bachelor of Design (Honours) in Interior and Spatial Design ........ 120
C09056 Bachelor of Design (Honours) in Animation .................. 121
C09059 Bachelor of Design (Honours) in Integrated Product Design .... 123
C09060 Bachelor of Design (Honours) in Fashion and Textiles ....... 123
C09061 Bachelor of Design (Honours) in Visual Communication .......... 124

Combined courses
C10011 Bachelor of Property Economics Bachelor of Arts in International Studies ................. 127
C10215 Bachelor of Construction Project Management Bachelor of Arts in International Studies ................. 224
C10266 Bachelor of Design in Photography and Situated Media Bachelor of Arts in International Studies ................. 281
C10272 Bachelor of Design in Interior and Spatial Design Bachelor of Arts in International Studies ................. 285
C10274 Bachelor of Design in Animation Bachelor of Arts in International Studies ................. 287
C10305 Bachelor of Design in Integrated Product Design Bachelor of Arts in International Studies ................. 293
C10307 Bachelor of Design in Fashion and Textiles Bachelor of Arts in International Studies ................. 295
C10309 Bachelor of Design in Visual Communication Bachelor of Arts in International Studies ................. 297

Postgraduate coursework courses
C04006 Master of Project Management .................................. 300
C04007 Master of Planning ........................................ 301
C04008 Master of Property Development .................................. 302
C04212 Master of Animation ........................................ 339
C04235 Master of Architecture ........................................ 353
C04240 Master of Advanced Architecture .................................. 359
C04243 Master of Design ........................................ 366
C06006 Graduate Diploma in Property Development .................. 385
C06033 Graduate Diploma in Local Government Management ........ 387
C07002 Graduate Diploma in Planning .................................. 401
C07004 Graduate Diploma in Project Management .................... 402
C07115 Graduate Diploma in Architecture .................................. 417
C07119 Graduate Diploma in Design .................................. 419
C11001 Graduate Certificate in Property and Planning .......... 421
C11005 Graduate Certificate in Project Management ............. 422

Postgraduate research courses
C11053 Graduate Certificate in Local Government Management .................. 433
C11204 Graduate Certificate in Development Assessment ............. 455
C11212 Graduate Certificate in Architecture .................................. 459
C11215 Graduate Certificate in Local Government Leadership ........ 459
C11225 Graduate Certificate in Design .................................. 464

FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

Undergraduate courses
C10061 Bachelor of Engineering Diploma in Engineering Practice .................. 140
C10066 Bachelor of Engineering Science .................................. 149
C10067 Bachelor of Engineering ........................................ 152
C10069 Bachelor of Engineering Science in Aerospace Operations .......... 159
C10143 Bachelor of Information Technology .................................. 192
C10148 Bachelor of Science in Information Technology ............... 193
C10152 Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice ................. 196
C10229 Bachelor of Science in Games Development .................... 235
C20049 Diploma in Information Technology Professional Practice ................. 299

Honours courses
C09019 Bachelor of Science (Honours) in Information Technology .......... 111

Combined courses
C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice ................. 146
C10063 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice ................. 147
C10065 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice ................. 148
C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice ................. 157
C10073 Bachelor of Engineering Bachelor of Science ................. 160
C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice ................. 166
C10075 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice ................. 167
C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice ................. 169
C10078 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice ................. 170
C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice ................. 171
C10136 Bachelor of Engineering Science Bachelor of Laws ................. 190
C10219 Bachelor of Business Bachelor of Science in Information Technology Diploma in Information Technology Bachelor of Arts in International Studies ................. 226
C10239 Bachelor of Science in Information Technology Diploma in Information Technology Bachelor of Arts in International Studies ................. 238
C10245 Bachelor of Science in Information Technology Bachelor of Laws Diploma in Information Technology .................. 252

Postgraduate coursework courses
C04085 Master of Engineering Management .................................. 309
C04090 Master of Engineering ........................................ 309
C04094 Master of Engineering Management .................................. 314
C04097 Master of Engineering Studies .................................. 315
C04098 Master of Environmental Engineering Management ............. 321
C04102 Master of Engineering Management Master of Business Administration .................. 322
C04157 Master of Information Technology .................................. 331
C04158 Master of Interactive Multimedia .................................. 333
C04160 Master of Science in Internetworking.......................... 333
C04161 Master of Business in Information Technology Management ............................................ 335
C04207 Master of Engineering Studies Master of Engineering Management ........................................... 338
C04218 Master of Information Technology (Extended) .......................................................... 340
C04224 Master of Science in Internetworking (Extended) ....................................................... 341
C06058 Graduate Diploma in Information Technology .......................................................... 390
C06060 Graduate Diploma in Information Technology Management ................................................. 391
C07078 Graduate Diploma in Interactive Multimedia ......................................................... 412
C07080 Graduate Diploma in Internetworking ........................................................................ 413
C11048 Graduate Certificate in Engineering ........................................................................ 428
C11051 Graduate Certificate in Environmental Engineering Management ........................................... 432
C11054 Graduate Certificate in Engineering Management ..................................................... 434
C11057 Graduate Certificate in Engineering Management ..................................................... 435
C11138 Graduate Certificate in Information Technology Management ........................................... 446
C11142 Graduate Certificate in Information Technology .................................................................. 447
C11143 Graduate Certificate in Interactive Multimedia .......................................................... 448
C11145 Graduate Certificate in Internetworking .......................................................................... 449
C11190 Graduate Certificate in Strategic IT Leadership ........................................................... 449
C11192 Graduate Certificate in Information Technology Project Management ............................................. 450

Courses offered in conjunction with others
C04212 Master of Animation ......................................................... 339

Postgraduate research courses
C02018 Doctor of Philosophy .......................................................... 472
C02029 Doctor of Philosophy .......................................................... 476
C02047 Doctor of Philosophy .......................................................... 479
C03017 Master of Engineering [Research] .................................................. 487
C03025 Master of Science in Computing Sciences [Research] .................................................. 489
C03051 Master of Analytics [Research] ..................................................... 495

FACULTY OF HEALTH
Undergraduate courses
C10122 Bachelor of Nursing .......................................................... 173
C10225 Bachelor of Midwifery ......................................................... 230
C10300 Bachelor of Human Movement .................................................................................. 288
C10301 Bachelor of Management in Sport and Exercise ..................................................... 289
Honours courses
C09018 Bachelor of Nursing [Honours] .................................................. 111
C09051 Bachelor of Midwifery [Honours] .................................................. 119
C09057 Bachelor of Human Movement [Honours] ...................................................... 121
C09058 Bachelor of Management [Honours] in Sport and Exercise .................................................. 122
Combined courses
C10123 Bachelor of Nursing Bachelor of Arts in International Studies ................................................... 178
C10302 Bachelor of Human Movement Bachelor of Arts in International Studies ........................................... 290
C10303 Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies ........................................... 291
Postgraduate coursework courses
C04140 Master of Health Services Management ...................................................... 326
C04228 Master of Nursing .......................................................... 344
C04246 Master of Health Services Management and Planning .................................................. 370
C04247 Master of Midwifery ........................................................................ 371
C07044 Graduate Diploma in Nursing ........................................................................ 408
C07048 Graduate Diploma in Health Services Management .................................................. 409
C07070 Graduate Diploma in Midwifery ........................................................................ 410
C07121 Graduate Diploma in Midwifery Studies .............................................................. 421
C11106 Graduate Certificate in Mental Health Nursing ..................................................... 437
C11107 Graduate Certificate in Health Services Management .................................................. 438
C11109 Graduate Certificate in Clinical Management ......................................................... 439
C11115 Graduate Certificate in Diabetes Education and Management ........................................... 439
C11116 Graduate Certificate in Perioperative Nursing ............................................................ 440
C11117 Graduate Certificate in Anaesthetics and Recovery Room Nursing ............................................. 441
C11118 Graduate Certificate in Critical Care Nursing ............................................................. 441
C11119 Graduate Certificate in Neuroscience Nursing ............................................................. 442
C11194 Graduate Certificate in Children’s Nursing ............................................................... 451
C11195 Graduate Certificate in Clinical Teaching ................................................................. 451
C11196 Graduate Certificate in Neonatal Nursing ................................................................. 452
C11200 Graduate Certificate in Child and Family Health Nursing ...................................................... 454
C11201 Graduate Certificate in Acute Care Nursing ............................................................... 455
C11226 Graduate Certificate in Midwifery Studies .............................................................. 465

Postgraduate research courses
C02024 Doctor of Philosophy .......................................................... 474
C02052 Doctor of Nursing ......................................................... 482
C02053 Doctor of Midwifery .......................................................... 483
C02054 Doctor of Health Services ......................................................... 484
C03048 Master of Nursing [Research] .................................................. 493
C03049 Master of Midwifery [Research] .................................................. 494
C03050 Master of Health Services [Research] ...................................................... 494
C03052 Master of Sport and Exercise [Research] ...................................................... 496

FACULTY OF LAW
Undergraduate courses
C10124 Bachelor of Laws .......................................................... 179

Combined courses
C10125 Bachelor of Business Bachelor of Laws .................................................. 181
C10126 Bachelor of Science Bachelor of Laws .................................................. 182
C10129 Bachelor of Laws Bachelor of Arts in International Studies ................................................... 187
C10131 Bachelor of Medical Science Bachelor of Laws .................................................. 189
C10136 Bachelor of Engineering Science Bachelor of Laws .................................................. 190
C10245 Bachelor of Science in Information Technology Bachelor of Laws ................................................... 252
C10258 Bachelor of Arts in Communication [Journalism] Bachelor of Laws ................................................... 270
C10259 Bachelor of Arts in Communication [Media Arts and Production] Bachelor of Laws ................................................... 271
C10260 Bachelor of Arts in Communication [Social Inquiry] Bachelor of Laws ................................................... 272
C10261 Bachelor of Arts in Communication [Public Communication] Bachelor of Laws ................................................... 274
C10262 Bachelor of Arts in Communication [Writing and Cultural Studies] Bachelor of Laws ................................................... 275
C10263 Bachelor of Arts in Communication [Information and Media] Bachelor of Laws ................................................... 277

Postgraduate coursework courses
C04143 Master of Laws ......................................................... 328
C04145 Master of Dispute Resolution ..................................................... 329
C04147 Master of Legal Studies ......................................................... 330
C04149 Master of International Law ..................................................... 331
C04236 Juris Doctor .......................................................... 354
C04242 Master of Communications Law ....................................................... 365
C04250 Juris Doctor Master of Business Administration ..................................................... 374
C04251 Master of Intellectual Property ..................................................... 376
C06099 Graduate Diploma in Intellectual Property ..................................................... 394
C07073 Graduate Diploma in Australian Law ..................................................... 411
C07074 Graduate Diploma in Legal Studies ..................................................... 412
C11125 Graduate Certificate in Dispute Resolution ..................................................... 443
C11128 Graduate Certificate in Legal Practice ..................................................... 444
C11129 Graduate Certificate in International Law .............. 445
C11130 Graduate Certificate in Trade Mark Law and Practice . 445
C12111 Graduate Certificate in Australian Law ................ 458
C12117 Graduate Certificate in Communications Law .......... 461
C11229 Graduate Certificate in Intellectual Property ............ 466
C11232 Graduate Certificate in Professional Legal Practice ...... 467

Postgraduate research courses
C02027 Doctor of Juridical Science .......................... 474
C02028 Doctor of Philosophy ................................... 475
C03024 Master of Laws [Research] ............................. 488

FACULTY OF SCIENCE

Undergraduate courses
C10115 Bachelor of Biomedical Science ...................... 172
C10155 Bachelor of Mathematics and Finance ................ 199
C10172 Bachelor of Biotechnology ............................. 201
C10174 Bachelor of Forensic Biology in Biomedical Science ... 216
C10184 Bachelor of Medical Science .......................... 217
C10186 Bachelor of Health Science in Traditional Chinese Medicine ........................................ 218
C10227 Bachelor of Science in Environmental Forensics ...... 233
C10228 Bachelor of Science in Marine Biology ................ 234
C10242 Bachelor of Science ................................. 241
C10244 Bachelor of Forensic Science in Applied Chemistry ...... 251

Honours courses
C09020 Bachelor of Science [Honours] in Mathematics .......... 112
C09021 Bachelor of Mathematics and Finance [Honours] ....... 113
C09022 Bachelor of Biotechnology [Honours] .................... 113
C09023 Bachelor of Science [Honours] in Biomedical Science ... 114
C09026 Bachelor of Science [Honours] in Applied Chemistry ... 114
C09029 Bachelor of Science [Honours] in Environmental Science .............................................................. 115
C09031 Bachelor of Medical Science [Honours] ................ 116
C09035 Bachelor of Science [Honours] in Applied Physics ...... 116
C09046 Bachelor of Science [Honours] in Nanotechnology .... 117
C09050 Bachelor of Forensic Science [Honours] in Applied Chemistry ......................................................... 118

Combined courses
C10073 Bachelor of Engineering Bachelor of Science .......... 160
C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice ................................. 166
C10075 Bachelor of Engineering Bachelor of Medical Science ... 167
C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice ............................. 169
C10078 Bachelor of Engineering Bachelor of Biotechnology .... 170
C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice ............................... 171
C10126 Bachelor of Science Bachelor of Laws .................... 182
C10131 Bachelor of Medical Science Bachelor of Laws .......... 189
C10157 Bachelor of Mathematics and Finance Bachelor of Arts in International Studies ............................ 200
C10162 Bachelor of Science Bachelor of Business ............. 203
C10163 Bachelor of Medical Science Bachelor of Business ...... 208
C10164 Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies .......... 209
C10165 Bachelor of Medical Science Bachelor of Arts in International Studies ........................................... 210
C10167 Bachelor of Biotechnology Bachelor of Arts in International Studies ..................................................... 211
C10168 Bachelor of Biotechnology Bachelor of Arts in International Studies ..................................................... 212
C10169 Bachelor of Biotechnology Bachelor of Business ........ 214
C10224 Bachelor of Mathematics and Computing Bachelor of Arts in International Studies ........................... 229
C10243 Bachelor of Science Bachelor of Arts in International Studies ............................................................ 245

Postgraduate coursework courses
C04241 Master of Science ........................................ 360
C06097 Graduate Diploma in Mathematics and Statistics for Business and Finance .............................. 393
C11210 Graduate Certificate in Mathematics ..................... 457
C11216 Graduate Certificate in Science .......................... 460

Postgraduate research courses
C02030 Doctor of Philosophy ..................................... 477
C02031 Doctor of Philosophy ..................................... 477
C03026 Master of Science in Mathematical Sciences (Research) ................................................................. 490
C03029 Master of Science (Research) ............................ 490

GRADUATE SCHOOL OF HEALTH

Postgraduate coursework courses
C04252 Master of Pharmacy ...................................... 376
C06100 Graduate Diploma in Pharmaceutical Sciences ......... 395
C11230 Graduate Certificate in Pharmaceutical Sciences ...... 467

Postgraduate research courses
C02056 Doctor of Philosophy ..................................... 485
C03053 Master of Pharmacy [Research] ........................ 496
C03054 Master of Pharmaceutical Sciences [Research] ......... 497
INTRODUCTION TO UTS

The University of Technology, Sydney is a multi-campus university spread over two locations in the Sydney metropolitan area. With a total enrolment of approximately 30,000 students, UTS is one of the largest universities in Australia.

UTS was originally established as the New South Wales Institute of Technology in 1965. In 1988 it attained university status and was joined by the School of Design of the Sydney College of the Arts. The University resulted from amalgamations brought about by the restructuring of the higher education sector in the late 1980s, and in January 1990 the Kuring-gai College of Advanced Education, the Institute of Technical and Adult Teacher Education of the Sydney College of Advanced Education and the ‘old’ UTS formed the new University of Technology, Sydney.

UTS places a strong emphasis on workplace experience and develops and regularly revises its programs of study in partnership with industry, government and professional bodies. It has one of the highest rates of employment for graduates in New South Wales.

The University is fully committed to internationalisation in all aspects of its operations and encourages students to gain international exposure and experience as part of their degree. Many of UTS’s students undertake some study overseas as part of their degree program.

The University’s curriculum and ways of teaching and learning equip UTS graduates for international careers and prepare them to live and work in a world of social and cultural diversity.

FACULTIES

In 2013 UTS offers undergraduate and postgraduate coursework and research degrees through the following eight faculties and schools:

- Arts and Social Sciences
- Business School
- Design, Architecture and Building
- Engineering and Information Technology
- Graduate School of Health
- Health
- Law
- Science.

Each of the faculties and schools is responsible for programs across a number of key disciplines, and all faculties offer courses in conjunction with other faculties.

Course areas

Courses at UTS are offered in the following 11 course areas:

- UTS: Business (see page 49)
- UTS: Communication (see page 53)
- UTS: Design, Architecture and Building (see page 57)
- UTS: Education (see page 60)
- UTS: Engineering (see page 62)
- UTS: Health (see page 72)
- UTS: Information Technology (see page 81)
- UTS: International Studies (see page 87)
- UTS: Law (see page 93)
- UTS: Pharmacy (see page 101)
- UTS: Science (see page 102).

FINDING YOUR WAY AROUND

UTS uses a four-character code to identify its campuses and buildings. This building identification system comprises two letters describing a geographic location (the campus) and two numerals indicating a building number. The floor number and room number may follow.

For example, City campus, Broadway, Building 1, level 26, room 30 is identified as CB01.26.30.

The geographic location codes are:
- CB – City campus, Broadway
- CC – City campus, Blackfriars, Chippendale
- CM – City campus, Haymarket
- CQ – City campus, 10 Quay Street, Haymarket
- KG – Kuring-gai campus

UTS campus maps are available at:
www.uts.edu.au/about/mapsdirections

STUDENT INQUIRIES

UTS Student Centres

UTS Student Centre staff provide general student administration information and advice, as well as course area specific administration services for UTS students and staff. Services provided by the UTS Student Centres include:

- subject and course information
- enrolment inquiries
- study plan inquiries
- class allocation inquiries
- credit recognition and subject substitution applications
- e-requests and Ask UTS inquiries
- leave of absence and concurrent study applications
- exam-related and academic progress applications
- progression and academic caution matters
- graduation list preparation.

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222 (international)
fax +61 2 9514 1200
Ask UTS www.ask.uts.edu.au
www.sau.uts.edu.au

City campus

Communication; Engineering; International Studies
Building 1 Student Centre
CB01.4 – Building 1, level 4 (foyer)
15 Broadway, Ultimo

Design, Architecture and Building; Science; Pharmacy
Building 6 Student Centre
CB06.4 – Building 6, level 4
702-730 Harris St, Ultimo

Education; Information Technology; Health
Building 10 Student Centre
CB10.2 – Building 10, level 2 (foyer)
235 Jones St, Ultimo

Business; Law (undergraduate)
Haymarket Student Centre
CM05C.1 – Building 5, block C, level 1
cnr Quay St and Ultimo Rd, Haymarket

Business; Law (postgraduate)
Haymarket Student Centre
CM05B.5 – Building 5, block B, level 5
cnr Quay St and Ultimo Rd, Haymarket

Kuring-gai campus
Kuring-gai Student Centre
KG01.5 – Building 1, level 5 (foyer)
Eton Road, Lindfield
It is essential that all students activate their UTS email accounts and maintain their current address and contact telephone details; print copies of their fees invoice; and access results, class tests or sitting examinations or class tests. It is also used to pay library fines and other services and fees. If the card is lost, a fee may be levied for its replacement.

Further information about ID cards and travel concessions is available at:
www.sau.uts.edu.au/student/id

STUDENT IDENTITY CARDS

All enrolled students must have a UTS student identity (ID) card. Students are issued with an ID card as part of the enrolment process. This card is only valid while enrolled at UTS. The ID card must be carried at all times while on University premises and may be required to be produced on demand by an employee of the University. A travel concession logo is printed or attached to the card for eligible students. The student ID card must be presented when borrowing books from the University library, when accessing the computer labs and when sitting examinations or class tests. It is also used to pay library fines and other services and fees. If the card is lost, a fee may be levied for its replacement.

Further information about ID cards and travel concessions is available at:
www.sau.uts.edu.au/student/id

APPLICATION AND ADMISSION

The UTS Admissions Policy is available at:
www.gsu.uts.edu.au/policies/admissionspolicy.html

Section 5 of the Student and Related Rules outlines admission requirements.
www.gsu.uts.edu.au/rules/5-index.html

Domestic students

UAC applications

Applications from Australian citizens, New Zealand citizens and permanent visa holders for most undergraduate courses and postgraduate coursework courses are made through the Universities Admissions Centre (UAC) except applications for postgraduate coursework programs in business which are made online through the UTS Business School:
www.business.uts.edu.au/pg/apply

Application details are available from the UAC at:
www.uac.edu.au
Details on courses offered by UTS are available in this handbook. For undergraduate courses starting at the beginning of the year, students are required to lodge a UAC online application between August and December of the previous year. For postgraduate courses, applications are lodged between September and January. Applications for mid-year admissions open in early April of that year. Some courses have earlier closing dates and students should check with the UAC for details on those. UAC codes differ for postgraduate courses depending on the semester of intake. The most up-to-date code is available from the UAC.

Direct applications
Application information for UTS Business School postgraduate courses, where applications are accepted directly by UTS, is available at:
www.business.uts.edu.au/pg
Information about and application forms for admission to higher degree research programs are available from the UTS: Graduate Research School at:
www.gradschool.uts.edu.au

International students
International student applications for undergraduate and postgraduate courses can be made directly to UTS International or through one of the University’s registered agents. For courses starting at the beginning of the year, applications should be received by 30 September for postgraduate research courses and 15 December of the previous year for coursework studies. For courses starting in the middle of the year, applications should be received by 30 March of that year for postgraduate research courses and 15 June of that year for coursework studies. Information about courses and application procedures is available at:
www.uts.edu.au/international
International students undertaking an Australian HSC prior to the year of commencement of university studies must apply through the Universities Admissions Centre (UAC):
www.uac.edu.au/international

Non-award and cross-institutional study
Students who want to enrol in subjects at UTS, but not as part of a UTS degree or qualification, must apply for non-award or cross-institutional study. There are three application periods and closing dates vary for each teaching period. Further information is available from the UTS Student Centres and at:
www.uts.edu.au/study/nonaward.html
Students who are temporary residents or hold student visas should contact UTS International for advice on their eligibility.
www.uts.edu.au/international

English proficiency
An application for admission is not considered until proficiency in English has been demonstrated. Details of the language standards required for admission to UTS are available at:
If suitable evidence of English proficiency is not forwarded with the application for admission, students are requested to complete an English proficiency test. UTS uses the International English Language Testing System (IELTS). The IELTS test is available in Australia in all capital cities and many regional centres. Further information is available from the UTS IELTS Centre at:
City campus, Broadway
CB02.5.30M – Building 2, level 5, room 30M
15 Broadway, Ultimo
telephone +61 2 9514 1536 (leave a message if necessary)
fax +61 2 9514 1824
e-mail ielts@uts.edu.au
www.uts.edu.au/international/ielts
CRICOS provider code 00099F

ENROLMENT
Following admission, students are required to identify the set of subjects from their study plan (see page 28) that will constitute their enrolment each year. They must also select a teaching period and a location from those that are on offer for each subject.
Correct enrolment in subjects is the responsibility of the student. For subjects being studied in Australia, enrolment is undertaken using My Student Admin (see page 21). Enrolling into subjects for credit conducted outside the University is a paper-based process. For further information see:
• Concurrent study: www.sau.uts.edu.au/enrolment/concurrent
• International exchange: www.ssu.uts.edu.au/globalexchange
In addition to formally enrolling in each subject, it is necessary to register in activities (e.g. classes, lectures, tutorials, seminars). Where more than one option is on offer for a particular activity, preferences may be collected from students before the final class allocation is made. See the timetable at:
http://timetable.uts.edu.au
Continuing students are required to enrol in at least one subject for the coming year during the published re-enrolment period from late October to early January otherwise a late enrolment fee of $250 will apply. Further information is available at:
Additions and deletions can be made to an enrolment using My Student Admin within a tightly defined time period limited by the last day to add a subject and the last day to withdraw from a subject, which is the teaching period census date (see page 22) (see also principal dates) (see page 40).
Failure to notify the University of withdrawal from a subject before the teaching period census date in a program can result in subject failure and incurs financial liability.
Students should be aware that it is their responsibility to regularly check My Student Admin to ensure that:
• their personal details, postal address and contact telephone numbers are correct, and the University is informed of any changes as they occur
• their enrolment details are correct
• they are registered into activities (classes, etc.)
• their subject enrolment is consistent with the completion rules of the course.
Enrolment information is available at:
www.sau.uts.edu.au/enrolment
Information on leave of absence, withdrawal from a subject or entire course, and key dates, is available from the Student Administration Unit at:
www.sau.uts.edu.au

CENSUS DATES
The University is required to set a census date for each subject it offers. The census date is:
• the date students becomes financially liable for any subjects in which they are enrolled
• the final day students can withdraw from a subject without incurring financial liability and academic penalty
• the date students incur a HELP debt for any units for which they have taken out a HELP loan
• the final day Commonwealth-supported students and students requesting Commonwealth assistance can submit appropriate Commonwealth assistance forms and provide their tax file number if they wish to defer their tuition fees
• the final day the University is allowed to accept upfront payments of Commonwealth-supported places student contributions (earlier deadlines for payment may apply).
Further information is available from the Student Administration Unit:
www.sau.uts.edu.au/dates/census
Census dates for research degree students are later in the year for Autumn and Spring semesters due to the flexible start dates for research students. Full financial and load liability applies after the census dates. Further information is available from the UTS: Graduate Research School:
www.gradschool.uts.edu.au
ACADEMIC PROGRESSION

All students are expected to meet minimum academic progression requirements. Students must pass 50 per cent of the credit points in which they are enrolled each half year. If this requirement is not met, students are placed on academic caution. During a period of academic caution, usually one half year, a student must consult with the designated academic course advisers from the relevant faculty for advice on their study plan; attend a study skills workshop program organised by the Student Services Unit; and enrol in no more than 24 credit points for the half year of study to which the period of academic caution applies.

Further information about academic caution is available at:
www.sau.uts.edu.au/academic/caution.html

After a period of academic caution, undergraduate students who do not maintain the required minimum level of progress may be excluded from a course. The minimum rate of progress for undergraduate students is achievement of 50 per cent of the credit points for which they have been enrolled in since the beginning of that course. Requirements for postgraduate coursework students are set out in the relevant course area (see page 49) postgraduate information section in this handbook or within specific course information. A faculty board may also discontinue a student’s registration in a course if the board is dissatisfied with the student’s progress.

Further information about academic progression, including appeal procedures, is available at:
www.sau.uts.edu.au/academic/progress.html

Postgraduate research candidature may be discontinued for an unsatisfactory progress report outcome, unsatisfactory candidature assessment, or failure to complete in the maximum time.

Further information is available from the UTS: Graduate Research School at:
www.gradschool.uts.edu.au/policies-rules

EXAMINATIONS AND RESULTS

Student results can be accessed via My Student Admin when released at the end of each teaching period:
https://onestopadmin.uts.edu.au

Information about examination timetables, conduct in examinations, appeals, and special consideration is available at:
www.sau.uts.edu.au/assessment

Students are required to be aware of the specific requirements of examination attendance and conduct, as published in section 9 of the Student and Related Rules:

Information on procedures followed in cases of suspected misconduct in an examination is also available in the rules:

The UTS policy and procedures on the Assessment of Coursework Subjects are available at:

Grades and grade point average

Students studying coursework programs receive a grade for each subject completed. The schedule of grade descriptions is available in schedule 3 of the Student and Related Rules at:

In most situations, students also receive a progressive grade point average (GPA) indicating their overall performance in a course. A GPA is a progressive measure of academic achievement over the duration of enrolment in a course. It provides an overall view of a student’s performance in a course and is an internationally recognised measure of student performance.

The GPA is based on the subject grade and credit points and is calculated using a preset weighting for each grade for all courses commenced from Autumn semester 2003. (GPA is only applicable to coursework awards, not research degrees.) In most cases, the GPA is calculated automatically at the end of each semester. The GPA is included on academic records.

Further information on GPAs is available at:
www.sau.uts.edu.au/assessment/results/gpa

COURSE COMPLETION AND GRADUATION

Eligibility to graduate

Students need to have satisfied all course requirements in order to graduate and receive an academic award from the University as outlined in sections 12 and 13 of the UTS Student and Related Rules. All matters, such as return of library books, must have been settled.

In addition, a student will not be eligible to graduate if they are involved in any student misconduct or appeals proceedings as outlined in section 16 of the rules.

When enrolling in their final year or semester, students need to ensure their program of study will satisfy requirements in accordance with the required timeframe so as not to delay their graduation.

Graduation

To graduate in Autumn 2013 students must ensure the following:
• payment of outstanding fees and financial obligations owed to UTS by 8 March 2013
• return of all University library books, materials and equipment by 8 March 2013
• application for change or correction of formal name submitted by 8 March 2013
• all outstanding results resolved by 11 March 2013
• correct formal name and status of ‘passed’ reflected on My Student Admin by 14 March 2013.

To graduate in Spring 2013 students must ensure the following:
• payment of outstanding fees and financial obligations owed to UTS by 2 August 2013
• return of all University library books, materials and equipment by 2 August 2013
• application for change or correction of formal name submitted by 2 August 2013
• all outstanding results resolved by 12 August 2013
• correct formal name and status of ‘passed’ reflected on My Student Admin by 14 August 2013.

Students need to ensure they are aware of the essential graduation information, ceremony schedule and registration timelines that the University communicates to graduands via their UTS email account or other contact details provided in My Student Admin. Failure to update contact details or read notifications are not accepted as reasons for being unaware of matters so notified (see rule 2.3 of the rules).

As the graduation ceremonies have limited capacity, students who have not undertaken the necessary actions by the required deadlines, as outlined in the graduation communications and on the graduation website, may not graduate and may not be able to attend a ceremony at their preferred time. This may result in deferral to the next ceremony period.

If students have any questions about their eligibility to graduate, course requirements, graduation registration or any other matters, they should contact a UTS Student Centre:
telephone 1300 ask UTS (1300 275 887)
Ask UTS www.ask.uts.edu.au

Further key information is also provided at:
• Graduation: www.gsu.uts.edu.au/graduation
• My Student Admin: https://onestopadmin.uts.edu.au

PRIZES AND AWARDS

Prizes are awarded each year to students in the University for meritorious work. These are made available through the generosity of private individuals and public organisations. They are offered each semester, annually or biennially. In rare instances, a prize is offered only when funds permit. Most prizes are offered subject to the provision that they are awarded only when a student has attained a mark or level of achievement considered by the faculty board concerned to be sufficiently high.

In addition to official University prizes and awards, a number of prizes are available from external sources. A searchable database of prizes and awards is available at:
http://datasearch.uts.edu.au/study/scholarships/prizes.cfm
The University’s policy and procedures for the administration of prizes are available at: www.gsu.uts.edu.au/policies/prizesadmin.html
The University’s guidelines for the acceptance of new prizes are available at: www.gsu.uts.edu.au/policies/prizesnew.html

**University medal**

A University medal may be awarded to a graduating student who has demonstrated exceptional merit. Further information on the University medal is available in rule 13.8 of the Student and Related Rules. The guidelines for the award of UTS medals are available at: www.gsu.uts.edu.au/policies/utsmedalguide.html

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**GLOBAL EXCHANGE**

UTS provides a range of opportunities for students to enhance their international capabilities, expand their career and personal goals, and develop an international perspective by participating in global exchange.

UTS has exchange partnerships with over 190 universities in 33 countries. This includes opportunities to study in English in Austria, China, Colombia, Denmark, Finland, France, Germany, Hong Kong, Hungary, India, Italy, Japan, Malaysia, Mexico, the Netherlands, Portugal, the Philippines, Singapore, South Korea, Spain, Sweden, Taiwan, Thailand as well as the more traditional destinations such as Canada, the UK and the USA.

Global exchange is an excellent opportunity to undertake a semester or two of study overseas at a UTS partner university and receive credit toward a UTS degree. UTS aims to create global citizens and encourages students to participate in the Global Exchange Program to develop skills and experiences which will increase their employability.

Global exchange information sessions are conducted each semester and attendance at the session is a preliminary requirement of the application process. More information and registration for an information session are available at: www.ssu.uts.edu.au/globalexchange

A complete list of partner universities is available at: https://uts.movenonet.eu/moveonline/exchanges/search.php

UTS provides scholarships each semester to support student participation in the global exchange program: www.ssu.uts.edu.au/globalexchange/scholarships.html

In addition, in 2012 the federal government OS-HELP loan scheme provided funding for eligible students of up to $5824 a semester for up to two semesters of overseas study: www.studyassist.gov.au/sites/studyassist/helppayingmyfees/pages/os-help-loans-and-study-overseas

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**STUDENT LEADERSHIP PROGRAMS**

### Beyond UTS International Leadership Development (BUILD) program

The Beyond UTS International Leadership Development (BUILD) program is an extracurricular student leadership, global citizenship and social development program focusing on global leadership, community connections and social issues. BUILD provides participants with leadership development, volunteering, short-term international programs, study tours, internships, networking opportunities, community engagement and social awareness activities. Participants are able to engage with an extensive suite of experiential learning opportunities locally and overseas.

More information and online registration are available at: www.ssu.uts.edu.au/beyonduts

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**Brennan Justice and Leadership program**

The Brennan program is a voluntary program for UTS law students that seeks to strengthen the justice consciousness, idealism and sense of service that they bring to their studies and later professional work. Introduced in 2011, it is a joint initiative of the UTS Faculty of Law and the UTS Law Students’ Society.

The program provides opportunities for students to develop their leadership potential and take part in a range of lectures, discussion groups and voluntary activities. Joining the program gives students the ability to go beyond the academic curriculum of their degree.

More information and online registration are available at: www.law.uts.edu.au/brennan

**Social Leaders @ UTS (SoUL)**

Social Leaders @ UTS (SoUL) is an extracurricular leadership and volunteering program. SoUL offers seminars, lectures and workshops on social entrepreneurship, active citizenship and the third sector and provides volunteering opportunities for students to put the skills and knowledge they learn in the classroom into practice for local community and not-for-profit organisations.

Through SoUL, students receive leadership training and development, enhanced communication and teamwork skills, hands-on work experience with real-world social businesses and contribute to positive social change in the community.

More information and online registration are available at: www.soul.uts.edu.au

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**STUDYING AT UTS: INSEARCH**

UTS: INSEARCH is a pathway provider to UTS. INSEARCH offers a range of academic and general English programs, higher education diplomas and, on behalf of UTS, UTS Foundation Studies.

INSEARCH has been educating students for over 20 years and is an important part of the UTS community. INSEARCH courses are taught by industry-experienced teaching staff, are designed in consultation with UTS faculties and are approved by the UTS Academic Board. INSEARCH’s special relationship with UTS also means that students benefit from UTS’s academic standards, student activities and reputation for excellence. Students also have access to UTS facilities which enables them to experience university life while studying at INSEARCH.

INSEARCH offers diplomas in Business, Communication (Public Relations), Design (Visual Communication), Engineering, Information Technology and Science. With small class sizes, dedicated academic support and quality programs, INSEARCH diploma graduates have the opportunity to fast track into the 2nd year of UTS (depending on which course they choose). Full details on INSEARCH courses, entry requirements, articulation and credit points are available on the INSEARCH website.

**UTS:INSEARCH Student Centre**

Ground floor, 187 Thomas St, Haymarket, Sydney

telephone 1800 896 994 (within Australia)
or +61 3 8676 7001 (outside Australia)
fax +61 2 9218 8666
email courses@insearch.edu.au
www.insearch.edu.au
INSEARCH CRICOS provider code 00859D
UTS CRICOS provider code 00099F
LEGISLATION, RULES AND POLICIES

UTS rules and policies

The rules and policies of the University have been written to provide advice on the responsibilities of students to their studies and to the rights of students and staff. Students should read and be familiar with the rules and policies of the University.

www.gsu.uts.edu.au/rrp.html

UTS Student Charter

The UTS Student Charter recognises that students and staff have rights and responsibilities to each other and to the University community. Students should read and be familiar with the UTS Student Charter.

www.gsu.uts.edu.au/policies/studentcharter.html

Student complaints

The University is committed to providing a learning and working environment in which complaints are responded to promptly and with minimum distress and maximum protection to all parties. All students and staff have a responsibility to contribute to the achievement of a productive, safe and equitable study and work environment at UTS. The policy on Handling Student Complaints outlines what a complaint is and contains information about how to make a complaint.

More information is available at: www.uts.edu.au/work/grievance

Right to information and privacy

An individual can request access to information held by UTS under the Government Information (Public Access) Act 2009 (NSW). If the information requested cannot be accessed online or through an informal application, an access application needs to be lodged with the right to information coordinator.

An individual may request access to their personal information under the Privacy and Personal Information Protection Act 1998 (NSW) or, where the information is health related, under the Health Records and Information Privacy Act 2002 (NSW). In addition to the requirements of these acts, UTS has a number of policies that govern access to, and the collection, use, storage and disclosure of, personal information.

Further information on right to information is available at: www.gsu.uts.edu.au/gipa

Further information on privacy is available at: www.gsu.uts.edu.au/privacy

NSW child protection legislation

Prohibited employment declaration and screening

In accordance with NSW child protection legislation, students participating in practical training placements that require them to have direct contact with children under 18 in designated child-related employment areas are required to complete a prohibited employment declaration form on enrolment, and each year in which they are enrolled as a student. Students may also be subject to employment screening. Screening is carried out only with students’ consent but eligibility for participation in such programs is determined on the basis of information obtained through these checks.

Volunteer/Student Declaration (Commission for Children and Young People Act 1998)

Under NSW law any person who has been convicted of a serious sex offence, the murder of a child or a child-related personal violence offence or who is a registrable person under the Child Protection (Offenders Registration) Act 2000 is prohibited from working in child-related employment. Prior to commencing each professional experience or clinical placement, students are required to complete a Volunteer/Student Declaration.

Education students: Appendix 4 Declaration and Appendix 2 Declaration and Employment Screening Consent for all employment with the Department

Every student, every year from 2011, needs to complete an Appendix 4 Declaration. All students who participate in professional experience subjects conducted in schools or in similar organisations, where work involves direct contact with children under 18, are required to complete an Appendix 4 Declaration at the beginning of each year of their course. Fourth-year students enrolled in primary education courses are required to undergo employment screening.

Students participating in internship or associate teacher programs that involve direct contact with children under 18 without the presence of a qualified teacher are subject to a working with children check by the NSW Department of Education and Communities, which requires completion of an Appendix 4 Declaration and the Appendix 2 Declaration and Employment Screening Consent for all Employment with the Department (internship is regarded as employment even though students are not paid).

Eligibility for participation in such programs is determined on the basis of these checks. These checks are only carried out with a student’s consent. If students refuse to consent to the checks, they will be unable to complete the course requirements. This information is for use by the Department of Education and Communities only.

The forms are available as downloadable PDFs from:


Further information is available from UTS: Education:

Building 10 Student Centre
CB10.2 – Building 10, level 2 (foyer)
235 Jones St, Ultimo
telephone +61 2 9514 3900

Kuring-gai Student Centre
KG01.5 – Building 1, level 5 (foyer)
Eton Rd, Lindfield
telephone +61 2 9514 5621

Health students: prohibited employment declaration and criminal record check

NSW Health is committed to providing their staff, patients, and clients with a safe workplace. The NSW Department of Health Employment Screening policy requires all students enrolling in courses that involve clinical placements in NSW public health facilities to undertake a National Criminal Record Check and comply with other policy requirements. In addition, when starting nursing or midwifery studies at UTS, international/overseas students are required to obtain a police certificate (with English translation) from their home country and any country that they have resided in, incorporating any charges the student may have against his or her name. If the student is unable to provide a police certificate, he or she must complete a statutory declaration stating that he or she has no pending criminal charges or convictions from their home country or any country that he or she has resided in. If a student does have such records, he or she must list the date of offence, type of offence, and court outcome. Details of the clearance requirements for students, including those for overseas students, are provided in Notice to Students Enrolling in Courses that Require Clinical Placements in NSW Public Health Facilities. This document and further links related to the forms, police certificates, and the process is provided at enrolment.

Following the commencement of studies and prior to each clinical placement, students are required to:

• have read the NSW Health Code of Conduct and signed a form confirming that they have read, understood, and will comply with the NSW Health Code of Conduct
• sign a Commission for Children and Young People Student Declaration.

Further information is provided on the commencement of studies. Students cannot undertake nursing practice until these clearance requirements are attended to. Fees may apply which must be met by the student.

Further information is available from UTS: Health at:

EQUITY AND DIVERSITY

UTS has a strong commitment to ensuring that the diverse nature of Australian society is reflected in all aspects of its employment and education. The University aims to provide a supportive and open organisational culture in which students and staff are able to develop to their full potential.

The Equity and Diversity Unit provides a range of services for students and staff including:

- support for access to education and employment for people from diverse backgrounds
- grievance handling advice and assistance for matters relating to discrimination and harassment
- advice on anti-discrimination and affirmative action legislation
- design and facilitation of equity and diversity training
- guest lectures and presentations on equity and diversity issues to student and staff groups.

UTS is committed to implementing its Equal Opportunity and Diversity policy.

Equity and Diversity Unit
CB01.17.12
City campus, Broadway
telephone +61 2 9514 1084
e-mail equity@uts.edu.au
www.equity.uts.edu.au

STUDENT OMBUDS

Students with a complaint against a decision by University staff, or related to the University, may seek assistance from the Student Ombuds.

All matters are treated in the strictest confidence and in accordance with proper processes.

CB02.4.02
City campus, Broadway
telephone +61 2 9514 2575
e-mail ombuds@uts.edu.au
www.ombuds.uts.edu.au
UNDERSTANDING COURSES AND SUBJECTS

COURSE DURATION AND ATTENDANCE

Teaching periods
There are two main semesters in the academic year. Autumn semester runs from the beginning of March to the end of June. Spring semester runs from the beginning of August to the end of November. The majority of subjects are offered within Autumn and Spring semesters. Summer session for undergraduate and postgraduate subjects occurs during the University summer holiday period. Summer session is designed so that students can fast-track their studies and complete subjects in an intensive format. Students should note that only a limited range of subjects is offered in this session. Any student interested in Summer session should contact the relevant UTS Student Centre regarding details of subjects offered and timetabling information.

The 2013 academic year dates (including the examination period) are:

- Summer session: 3 December 2012 – 8 February 2013
- Autumn semester: 25 February – 28 June 2013
- Spring semester: 29 July – 29 November 2013
- Winter session: 3 December 2013 – 8 February 2014

Some subjects are offered in block or intensive mode in the following short teaching periods:

- March session: 11 March – 19 April 2013
- April session: 29 April – 7 June 2013
- July session: 17 June – 26 July 2013
- August session: 12 August – 20 September 2013
- October session: 30 September – 8 November 2013
- December session: 18 November 2013 – 3 January 2014

Standard duration
The standard course duration is listed within the detailed entry for each course. Course duration may vary depending on attendance pattern and student load and the timetabling of chosen elective subjects.

Master’s degrees by research take a maximum of two years of full-time (four years part-time) research and writing to complete.

Doctorates take a maximum of four years of full-time (eight years part-time) research and writing to complete.

Study load
Full-time students typically undertake 24 credit points a semester. Part-time students have a reduced semester load. Students are not normally permitted to take more than 30 credit points a semester, but there is no lower limit apart from those dictated by the maximum time and leave of absence rules.

Some courses are offered in such a way as to support part-time attendance through the scheduling of classes in the evening. Others are primarily designed for full-time students. Information on modes of study is provided in the detailed entry for each course.

Enrolment restrictions
The only restrictions on subject enrolment are that the subject requisites are met, the subject has not reached its enrolment quota, and that the subject is a valid component of the student’s study plan.

Note: Entry into preferred subjects is not guaranteed.

Attendance modes
For each specific subject, teaching period and location, one or more attendance modes are available: standard, block, distance (off-campus), and mixed.

Standard attendance mode involves attendance at weekly, on-campus classes over a 14-week semester.

Block mode involves an intensive period of study in classes scheduled over one or more weeks of the teaching period. In distance (off-campus) mode, students are provided with materials that they work through in their own time, supported by online and print materials and possibly one or two face-to-face sessions.

Mixed mode attendance combines the flexibility of on-campus, distance and block study.

Students undertaking a master’s (research) or doctoral degree are, in general, not required to attend classes. However, regular contact is maintained with the student’s supervisor(s) throughout enrolment.

Class attendance
On-campus classes may be timetabled between 9am and 9pm. Not all subjects are available in the evenings. Evening classes can start as early as 5pm. Part-time students may need to attend some day classes and full-time students may need to attend some evening classes.

Regular attendance at classes is a requirement of the University. It is the student’s responsibility to attend lectures, tutorials and laboratory sessions and carry out all assignment and examination work in every subject in which she or he is enrolled. Students are issued with a subject outline for each of their subjects that includes further details of specific attendance requirements.

The current timetable is available at: http://timetable.uts.edu.au

International students
International students studying on student visas are subject to specific enrolment requirements under the Australian Government’s Education Services for Overseas Students Act 2000. These requirements do not apply to international students studying on other kinds of visa.

Further information on student visas is available from UTS International:

www.uts.edu.au/international/current/visa

Credit point load and course duration
International students studying on student visas must ensure that their credit point load puts them in a position to complete their course within the standard duration. This normally requires the completion of 48 credit points a year. Hence, by default, international students must enrol in 100 per cent load each semester. The exceptions are:

- if they have made up, or intend to make up, credit points by overloading or enrolling in non-standard sessions, or
- if they have formal faculty approval to reduce their load.

Australian Government legislation prevents UTS from granting extensions to international students’ courses except in limited circumstances. Failure to follow the above requirements may therefore mean that an international student is unable to extend their student visa to complete their course.

Further information on study load is available from UTS International:

www.uts.edu.au/international/study/permission.html

Attendance mode
International students may enrol in distance subjects, subject to faculty approval. However, students studying on student visas must enrol in at least one on-campus subject each semester, and can study a maximum of 25 per cent of their total course by distance.

Further information is available from UTS International:

www.uts.edu.au/international

ASSUMED KNOWLEDGE

Assumed knowledge means that a student is assumed to have passed a relevant subject in the HSC. UTS does not have specific HSC subject prerequisites for any of its courses. Each faculty identifies assumed knowledge and/or recommended studies, which students are advised to have achieved before beginning the course. Details of any assumed knowledge are included in the entry for each course.

UTS offers a range of bridging courses (see page 35) for students who do not meet the assumed knowledge requirements for their preferred course. Most of the courses are offered in late January/early February, between enrolment and the start of semester. Bridging courses in chemistry, mathematics and physics are available for new students undertaking degree studies in business; design, architecture and building; education; engineering and information technology; health; and science.

Student learning centres (see page 36) are also available to provide assistance to students via bridging and intensive courses and general advice.
CREDIT RECOGNITION

Credit recognition is granted in accordance with section 6 of the UTS Student and Related Rules. Individual courses may also have specific regulations regarding credit recognition.

UTS provides the opportunity for students to apply to have prior learning considered for credit towards a UTS course where the prior learning is related to assessable components of the course. Forms of prior learning include previous study from recognised tertiary organisations, relevant work or life experience, or courses undertaken outside a recognised tertiary education organisation.

Eligibility for credit recognition does not guarantee an applicant a place in the course for which credit recognition may be available. An applicant may apply for an assessment of their prior learning normally only at the time of applying for entry to a course. If recognition of this prior learning is granted, students receive either exemptions or substitutions from either specified or unspecified components of their UTS course.

Students granted exemptions must monitor progress in their enrolled subjects in the first weeks of the teaching period to enable withdrawal, if necessary, from subjects where credit recognition has been granted, before the last date for withdrawal. Students may apply to have an exemption rescinded and enrol in the relevant subject if they feel they cannot meet academic requirements or other components of their course without completing the subject.

Students should read the Credit Recognition Policy at:
www.gsu.uts.edu.au/policies/credit-recognition.html

Further information is also available from specific faculty guidelines at:

Application forms for credit recognition are available from the UTS Student Centres or at:
www.sau.uts.edu.au/forms

If previous study was at another tertiary institution, the credit recognition search tool can be used for an indication of the amount of credit that an applicant may be eligible to receive at UTS.

http://datasearch.uts.edu.au/credit/index.cfm

Further information is available from:
telephone 1300 ask UTS (1300 275 887)
Ask UTS www.ask.uts.edu.au

When visiting a UTS Student Centre bring a copy of your transcript from your previous study, or alternatively upload a copy via Ask UTS.
Student Centre locations and opening hours are available at:
www.uts.edu.au/students/centres.html

PROFESSIONAL RECOGNITION

Many UTS courses are recognised by professional associations and bodies. This means that graduates may be eligible to apply for professional membership of associations or bodies, or that graduates may be recognised as having satisfied the academic requirements to practise in a particular profession.

Details of professional recognition are included in the entry for each course.

AVAILABILITY AND TYPICAL AVAILABILITY

Course availability

The availability of a course refers to the teaching periods and locations for which there will be a student intake in the specified year. Information about undergraduate and postgraduate courses open for applications is available at:
www.uts.edu.au/study/apply.html

Subject availability

The typical availability of subjects is provided with the subject description. It lists each teaching period/session and location that the subject is usually offered.

Note: While the subject is usually offered according to the specified pattern, there is no guarantee. Students should check the actual availability of subjects on the timetable.

Timetable

The University timetable for all teaching periods (except Summer session) is published online in early November for the coming year. The Summer session timetable is usually published in mid-October each year.

http://timetable.uts.edu.au

UAC CODES

The handbook uses several standard acronyms against UAC codes:

FT: full-time
PT: part-time
CSP: Commonwealth-supported place
PDFP: postgraduate fee-paying

STUDY PLANS

On admission to the University each student is given a study plan. The study plan is a list of the subjects that must be completed in order to qualify for the course award. As well as compulsory or core subjects, the study plan may include lists of subjects from which a specified number of credit points must be selected. Some courses allow students to choose a specific learning pathway. A pathway may require students to choose one or more majors or sub-majors.

The study plan is available through MyStudentAdmin. Any choices, in the form of option selection or pathway specification, can be made online, although in some cases faculty approval is required. The point at which choices need to be made, and the extent to which choices are reversible, depends on the course.

Further information is available from the Student Administration Unit at:
www.sau.uts.edu.au/enrolment/studyplan

COURSE STRUCTURE

A course structure is provided for each course. The course structure specifies the completion requirements for a particular version of a course. Changes in course completion requirements are reflected in successive course versions. However, the course requirements that apply to a student are those that applied at the time of admission to the course, unless a specific transition program has been approved by the faculty.

The course structure is shown by listing compulsory components (core components) and/or an options list. The components in both the core and the options list may be subjects (see page 29) or sub-structures (see below), such as majors, sub-majors, choice blocks or streams.

SUB-STRUCTURES

Choice blocks (CBK), streams (STM), majors (MAJ) and sub-majors (SMJ) are groupings of subjects that form part of the course structure (see above). They are collectively called sub-structures.

Sub-structures are used to specify the completion requirements for a particular course and appear in the course structure and course program of the detailed course entry.

With the exception of choice blocks, which consist entirely of an option list from which a specified number of credit points must be selected, each of these sub-structures can include core components, optional components or both. The components may be subjects or further sub-structures.
The breakdown of the subjects students are required to complete within a particular sub-structure is provided in code-numeric order in the study package directory. The credit point value of the options available is always specified but, in some cases, no subjects or only a partial list of subjects are specified under the list of valid choices. This is the case when students have considerable flexibility as to what subjects they choose. Once permission from the relevant faculty has been obtained, the chosen subject can be made available to the student by being added to the appropriate list on the student’s study plan (see page 28).

**COURSE PROGRAMS**

In order to assist students in determining the order of enrolment in subjects, typical course programs are supplied. These are offered as suggested patterns of enrolment that enable students to satisfy the course completion requirements, taking into account factors such as subject requisites, teaching period offered, and full-time or part-time study load. Individual programs may vary from the typical course program if subject requisites are satisfied.

Following the course program allows students to complete the degree in the minimum time. Students should be aware that if the typical program is not followed, the course duration may be extended and not all subjects may be available when preferred.

In the case of combined degrees and courses with significant flexibility in major and sub-major choices, it is not feasible to publish programs for all possible pathways. Programs are presented for typical pathways, along with information that would allow the equivalent program for a different pathway to be deduced.

Not all courses have a typical program. Students in such courses need to refer to the course structure and select subjects for which they have met the requisites, constructing a program for themselves that avoids timetable clashes. The best way to do this is to identify any long requisite chains in the course and undertake subjects at the beginning of the longest chain first.

**SUBJECTS**

Subject descriptions include the subject number, name, credit point value and study mode. Also shown are the academic prerequisites and corequisites, if any, followed by a brief subject outline and, in some cases, details of assessment.

**Credit points**

Credit points are the unit of measure of workload for individual subjects. Credit points (cp) are gained by students enrolled in award courses when subjects are passed and, when accumulated, credit points form one measure of the total requirements of a course. Most subjects are 6cp or 8cp. As a standard measure at UTS, a normal full-time study load is equivalent to 48 credit points a year.

**Requisites and anti-requisites**

If a subject has an academic prerequisite or corequisite it will be displayed under the 'Requisite(s)' heading in the subject description. All requisites displayed under the 'Requisite(s)' heading are prerequisites unless a lower case ‘c’ appears after the subject code (e.g. 78100c) which indicates that the subject is a corequisite.

If a subject has an academic anti-requisite it will be displayed under the 'Anti-requisite(s)' heading in the subject description. There are also admission requisites and other requisites which may impact on a student’s enrolment in a subject; these are available in ‘Access conditions’, accessible from every online subject description.

**Definitions**

A prerequisite is a subject that must be completed before enrolment in another specified subject.

A corequisite is a subject that must be completed either before or concurrently with another specified subject.

An anti-requisite is a subject/study package with substantially overlapping content as another subject/study package and which therefore cannot be undertaken by a student, for credit-point value, who has already undertaken the subject/study package for which it is an anti-requisite.

**Recommended studies**

Some subjects also include an indication of recommended studies, subjects or experience which students would benefit from having completed before commencing the subject. Recommended studies are not mandatory and are not enforced by the University. Students should discuss any recommended studies with their faculty.

**Core subjects**

Core subjects are subjects that are compulsory within a specified course or sub-structure (see page 28). Whether a subject is a core subject is dependent on the course or sub-structure in which it resides, so that a subject which is core in one course may be available as an option or elective in another.

**Options lists**

Many course structures (see page 28) provide the opportunity to select subjects from a specified list. Options lists present a set of subjects from which students must make choices to a specified total credit point value. Options lists may either be associated directly with a course or sit within sub-structures such as majors, sub-majors, choice blocks and streams.

**Electives**

Some courses provide the opportunity to select electives where the subjects chosen are not constrained to a specified list. Although it is necessary to select elective subjects to the nominated credit point value, students are able to choose which subjects to complete in order to satisfy this criteria in the course requirements. Students are able to select from a wide range of subjects offered across the University, within the constraints of the particular access conditions applying to each subject.

**Subjects offered by other faculties or institutions**

Students wishing to take subjects offered by other faculties or by another institution should discuss their choice of subjects with their faculty adviser.

Note: Once approved by a faculty, it is the student’s responsibility to ensure all required application procedures are followed for acceptance at other institutions.

**Concurrent study**

Students who wish to study one or more subjects at another institution and have those subjects credited to their UTS course must complete an application for concurrent study form. Subjects successfully completed are added to the student’s record at UTS as a subject exemption. No mark is recorded and the subjects do not contribute to the calculation of level of award or grade point average. The application form is available at: www.sau.uts.edu.au/forms

**Assessment**

Assessment varies from subject to subject. Assessment items can include class presentations; reflective reviews and journals; research papers; case studies; simulations and role-plays; in-class tests; discussion papers; assignments, reports and essays; and final examinations, faculty-based examinations and take-home examinations. Assessment often involves both individual and group work. Detailed assessment requirements, including weighting of assessment items, due dates and arrangements for collection and return of assessment items, are set out, where available, in subject outlines, which are distributed by subject coordinators by the end of the first week of teaching. Students should check with their faculty for any other specific assessment guidelines.

The UTS policy and procedures for the Assessment of Coursework Subjects are available at: www.gsu.uts.edu.au/policies/assessment-coursework.html

**Postgraduate research assessment**

The majority of research degrees are undertaken wholly by thesis. A master’s (research) is normally a work of around 40,000 words and is examined by two appropriate examiners, at least one of whom is external to UTS. A doctoral degree is normally a work of 80,000–100,000 words and is examined by three appropriate examiners, at least two of whom are external to UTS. Further information is available from the UTS: Graduate Research School at: www.gradschool.uts.edu.au
ACADEMIC UNITS OFFERING COURSES AND SUBJECTS

In addition to the eight faculties and schools, the following academic units also offer courses and subjects at UTS.

CENTRE FOR LOCAL GOVERNMENT

The objective of the Centre for Local Government is to support the advancement of local government through continuing professional education and training, research and specialist consulting services. In Australia and internationally, the centre works collaboratively with local government associations, professional institutes and state and federal government departments.

The centre is a major provider of continuing professional education for local government in New South Wales. Education and training programs are offered throughout the state and have a strong emphasis on workplace learning and high-quality, up-to-date content. In addition, the centre regularly undertakes applied research, training programs and consultancies for all spheres of government, individual councils and regional groups of councils, across a wide range of activities. Significant contributions are made to the international development of local government through professional education courses and joint programs with partner organisations in the Asia-Pacific region, South Africa and elsewhere.

The centre offers a Graduate Diploma in Local Government Management (C06033) (see page 387), which is delivered largely in flexible, workplace-based modules, as well as a Graduate Certificate in Development Assessment (C11204) (see page 455) and a Graduate Certificate in Local Government Leadership (C11215) (see page 459). Further information is available from:

Gabrielle Watterson
Administrative Officer
CB10.06.400
City campus, Broadway
telephone +61 2 9514 1659
fax +61 2 9514 2274
email clg@uts.edu.au
www.clg.uts.edu.au

INSTITUTE FOR SUSTAINABLE FUTURES

The Institute for Sustainable Futures works with industry, government and the community to develop sustainable futures through project-based research.

The institute’s mission is to create change towards sustainable futures. Its objectives are to:

• be a world leading sustainability research institute
• support communities, government and business to create their own change towards sustainable futures
• deliver a cutting edge transdisciplinary postgraduate research program in sustainable futures
• progress public dialogue as well as motivate and facilitate action
• be an exemplar of participation within the UTS community
• value and enrich a supportive and sustainable workplace.

Further information is available at:

CB10.11
City campus, Broadway
telephone +61 2 9514 4950
fax +61 2 9514 4941
email isf@uts.edu.au
www.isf.uts.edu.au

The institute offers a Doctor of Philosophy in Sustainable Futures (C02037) (see page 478) and a Master of Sustainable Futures (Research) (C03032) (see page 491) to both local and international students. The institute does not offer coursework degrees.

Applications for postgraduate research places are subject to the same criteria as applications to any UTS course.

Further information on the University’s requirements for postgraduate applications and on scholarships and fees is available from the UTS: Graduate Research School:

www.gradschool.uts.edu.au

The UTS: Graduate Research School provides a range of researcher development courses and activities for currently enrolled research students, early career researchers and supervisors. More information is available at:

www.gradschool.uts.edu.au/researcher-skills

International applicants should contact UTS International.

www.uts.edu.au/international

Inquiries

The institute’s website provides an outline of the postgraduate program and the steps required to proceed with an application to study at ISF. The institute receives many more applications than places available, so it is important to contact them early and to follow the application processes outlined on their website:

www.isf.uts.edu.au/postgrads

UTS SHOPFRONT

UTS Shopfront is a University-wide program that acts as a gateway for community access to UTS. It links disadvantaged and under-resourced community groups to University skills and professional expertise on a pro bono basis.

As part of the University’s academic program, UTS Shopfront runs a community research elective which is available to all students in all undergraduate and postgraduate courses (with faculty and UTS Shopfront approval).

Students should consult their faculty before enrolling in these subjects.

Undergraduate

• 50294 Community Research Elective (UG) 8cp

Postgraduate

• 57993 Community Research Elective (PG) 8cp

UTS Shopfront

CB01.16 – Building 1, level 16
City campus, Broadway
telephone +61 2 9514 2903
www.shopfront.uts.edu.au
SCHOLARSHIPS, ASSISTANCE AND FEES

SCHOLARSHIPS

UTS offers many scholarships annually to thousands of UTS students. Scholarships vary considerably in terms of their purpose, eligibility criteria and amount.

The scholarship search facility is available at:
http://datasearch.uts.edu.au/study/scholarships

Vice-Chancellor’s scholarships

In 2013, UTS awards the Vice-Chancellor’s scholarships to current school leavers, valued at $12,500 a year for the duration of the full-time course.

• The Vice-Chancellor’s Outstanding Achievement Scholarships are awarded for academic excellence in high school. The scholarships were awarded to five current school leavers in 2012 with an ATAR of 99.7 and above.

• The Vice-Chancellor’s Merit Scholarships are awarded to students demonstrating academic excellence in high school (ATAR of 90 or above) and financial need. The scholarships were awarded to five current school leavers in 2012. Applicants must demonstrate financial disadvantage by applying for an Equity Scholarship through the Universities Admissions Centre (UAC) (www.uac.edu.au/equity).

Further information on the Vice-Chancellor’s scholarships is available from:
UTS Scholarships Office
telephone +61 2 9514 2527
email scholarships@uts.edu.au
http://datasearch.uts.edu.au/study/scholarships

Vice-Chancellor’s Indigenous Undergraduate Tuition Fee Scholarships

UTS awards the Vice-Chancellor’s Indigenous Undergraduate Tuition Fee Scholarships to recognise academic excellence in the final year of school. These scholarships are awarded to Australian Aboriginal or Torres Strait Islander students to cover tuition fees for the duration of an undergraduate course.

Further information is available from Jumbunna Indigenous House of Learning at:
www.jumbunna.uts.edu.au

Faculty-specific scholarships

Faculty-specific scholarships are offered for specific courses. Some examples are:

• Dean’s scholarships are prestigious faculty scholarships for top-performing ATAR students. These scholarships are valued at up to $10,000 per annum for the duration of the full-time undergraduate degree.

• Co-operative scholarships are sponsored by industry and combine financial benefits with the possibility of valuable industry placement. UTS offer cooperative scholarships in these courses: Bachelor of Accounting, Bachelor of Information Technology, Bachelor of Engineering Diploma in Engineering Practice.

Search for theses and other faculty-specific scholarships at:
http://datasearch.uts.edu.au/study/scholarships

UTS Diversity Access Scholarships

UTS Diversity Access Scholarships are offered to UTS undergraduate and postgraduate students in situations of financial hardship. These scholarships are one-off payments valued between $600 and $2500. Recipients may apply each semester that they are eligible.

Eligibility information is available at:
http://datasearch.uts.edu.au/study/scholarships

Commonwealth scholarships

The Commonwealth Government awards Student Start-Up Scholarships and Relocation Scholarships to eligible students receiving a Centrelink student support payment (Youth Allowance, Austudy or Abstudy). Further information is available through Centrelink at:
www.humanservices.gov.au


Further information on these scholarships is available from:
http://datasearch.uts.edu.au/study/scholarships

Postgraduate research scholarships

All permanent residents/citizens of Australia applying for a higher research degree can apply for a postgraduate research scholarship. These scholarships are usually living allowance stipends which provide periodical payments to students while they are studying.

Further information on research scholarships is available from the UTS: Graduate Research School at:
www.gradschool.uts.edu.au

Scholarships for international students

UTS offers scholarships for:

• incoming international students
• current UTS students who wish to pursue studies overseas through the Global Exchange program
• current students enrolled in undergraduate, postgraduate coursework and postgraduate research studies.

All scholarship applications are competitive. They are open to international students who meet the specific scholarship selection criteria and who have received or are eligible to receive admission to a course at UTS.

Search for international student scholarships at:
http://datasearch.uts.edu.au/study/scholarships

FINANCIAL ASSISTANCE

Study Assist

The Australian Government’s Study Assist website provides information about fees, loans and scholarships associated with study at university. It also contains information about higher education reforms that affect students.
www.studyassist.gov.au

HECS-HELP

Since 1 January 2005, Commonwealth-supported places have replaced HECS places. Eligible students have access to HECS-HELP assistance. This allows eligible students to request a HECS-HELP loan and defer payments through the Australian Taxation Office, or to receive a HECS-HELP discount for upfront payments over $500.

Further information for Commonwealth-supported students is available at:
www.studyassist.gov.au

FEE-HELP

FEE-HELP is a loan scheme for eligible full-fee-paying domestic students. Under this scheme students can borrow up to the amount of the tuition fees being charged for units of study. Over a lifetime the FEE-HELP maximum limit is currently $93,204. Students who access FEE-HELP for a full-fee undergraduate place also incur a 25 per cent loan fee.

Further information on FEE-HELP is available at:
www.studyassist.gov.au
SA-HELP
Eligible students who do not wish to pay the student services and amenities fee up front to the University, can request assistance and defer the fee through SA-HELP, a new element of the Higher Education Loan Program (HELP).
Further information on SA-HELP and the student services and amenities fee is available at:
www.sau.uts.edu.au/fees/other/service.html

Commonwealth Higher Education Student Support Number (CHESSN)
All Commonwealth-supported students and FEE-HELP students are issued with a Commonwealth Higher Education Student Support Number (CHESSN). The CHESSN is a unique identifier that tracks an individual’s use of Commonwealth assistance. As a condition of enrolment, students provide informed consent for the University to share their personal information with the Department of Industry, Innovation, Science, Research and Tertiary Education, so that the University can comply with legislative requirements. The information provided by students is used to generate the CHESSN. The CHESSN stays with students for their academic life.
Students can access their information using their CHESSN via myUniAssist at:
www.studyassist.gov.au

OS-HELP
OS-HELP is a loan scheme that helps eligible Commonwealth-supported students undertake some of their study overseas. The scheme provides up to $6051 (in 2013) per six-month study period for up to two study periods to help students with a range of expenses such as airfares and accommodation.
Further information on OS-HELP is available at:

Centrelink benefits
The Australian Government’s benefits for tertiary students are administered by Centrelink and are income and assets tested:
• Austudy (for students aged 22 and over on 1 January 2012)
• Dependent Youth Allowance (assessed on the parents’ income and assets; for students up to 22 years who have not met the independence criteria)
• Independent Youth Allowance (for students up to 22 years, who have satisfied the independence criteria).
• Abstudy (see below).

In 2010 significant changes to the eligibility requirements and payment schedules were introduced. Eligibility and registration details for all Centrelink benefits are available from Centrelink at:
www.humanservices.gov.au
Registering students need to provide supporting documents to Centrelink as soon as possible. The first benefit payment for an eligible full-time student is backdated to the date of registration with Centrelink.
Commonwealth legislation sets strict requirements for Austudy and Youth Allowance over which the University has no control.
Students receiving Austudy or Youth Allowance must be enrolled in a minimum of 18 credit points a semester. They need to advise Centrelink if they drop subjects during semester, and with less than 18 credit points they are no longer eligible for the benefits. Exceptions may be made for students with disabilities or ongoing illnesses that impact on their studies, students who are single supporting parents or, in exceptional cases, those who are required by the University to undertake a reduced study load.
The financial assistance service at UTS provides a guide to Centrelink benefits for students at:
www.ssu.uts.edu.au/fassist

Abstudy
Abstudy assists Aboriginal and Torres Strait Islander tertiary students by providing income support and other assistance.
Further information is available from Jumbunna Indigenous House of Learning at:
CB01.17
City campus, Broadway
telephone +61 2 9514 1902
or 1800 064 312
www.jumbunna.uts.edu.au
The financial assistance service provides a guide to Abstudy at:

International loan schemes
International students from some countries may apply for government funded and private education loans to support their studies in Australia. UTS International can provide documentation and advice to eligible students. Further information is available at:
www.uts.edu.au/international
Students from Canada, Sweden, Norway, the United Kingdom and the United States may apply for education loans from government departments in their home countries. International students who have the support of a co-borrower who is either a citizen or permanent resident of the United States can access private education loans.
UTS also accepts students who are eligible for a range of US Veteran’s Educational Benefit Programs.
Further information on educational loans is available from the loans scheme coordinator:
email usfinaid@uts.edu.au

UTS financial assistance
UTS provides scholarships (see page 31) and a range of other financial assistance. Contact Student Services for more information:
email student.services@uts.edu.au

FEES AND COSTS

Course and subject fees
Undergraduate fees (domestic)
In 2013 UTS offers Commonwealth-supported places to all commencing undergraduate students. Continuing students enrolled prior to 2013 in full-fee-paying places will maintain their full-fee place, as will international students who become permanent residents.
The government makes a substantial contribution towards the cost of Commonwealth-supported students’ education, and the balance is paid through student contributions. Students who are eligible may access HECS-HELP (see page 31). UTS determines the student contribution amount for each subject within the ranges set by the Australian Government.
Continuing full-fee-paying (non-Commonwealth-supported) domestic students must meet the full cost of their education themselves. However, students may be eligible to access the FEE-HELP loan scheme. Students who use FEE-HELP (see page 31) for a full-fee-paying undergraduate course incur a loan fee, to the value of 25 per cent of the loan.
Further information on fees is available at:
www.sau.uts.edu.au/fees

Postgraduate fees (domestic)
For most postgraduate courses by coursework, students are charged tuition fees. A small number of courses are offered as Commonwealth-supported places.
Approved fees for UTS postgraduate award courses are listed in the annual fees schedule. Postgraduate students enrolled in a full-fee-paying place may be eligible to access FEE-HELP (see page 31). Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Research students who qualify for a Research Training Scheme place are exempt from postgraduate course fees. Further information is available from the UTS: Graduate Research School at:
www.gradschool.uts.edu.au
Payment amounts
All students at UTS pay tuition fees to contribute towards the cost of their studies. The exact amount depends on:
• what type of student you are
• the subjects you enrol in, and their credit-point value
• the course you are studying.
Details of all fees are available via the Tuition Fee Calculators at:
www.sau.uts.edu.au/fees/calculators.html

Consequences of non-payment of fees
Students who have not paid all due fees and charges by the published final date for payment are liable for a late payment fee. These students are also unable to receive examination results, change their enrolment program, access their UTS computer account or graduate. Students may also have their enrolment in a course cancelled. Students who wish to recommence their studies must then apply through the formal admissions process. Readmission is not guaranteed.

Annual fee increases
Fees increase annually and students should anticipate a fee increase each year. They are set annually by the federal government’s Department of Industry, Innovation, Science, Research and Tertiary Education for Commonwealth-supported places and by the University for full-fee-paying places. Any projections regarding the tuition fee cost of obtaining a degree need to incorporate annual fee increases. As the University’s costs increase each year, fees are adjusted annually to ensure a high standard of teaching and to enhance the student experience while keeping the cost to the student as affordable as possible.

Student services and amenities fee
In 2013 all domestic students will be required to pay a student services and amenities fee (SSAF) each semester. The SSAF contributes to the provision of amenities and non-academic services for students. Eligible students may apply to defer this fee through SA-HELP.
Further information is available at:
www.sau.uts.edu.au/fees/other/service.html

Other costs
Students may incur other costs while studying at UTS. These may include books, printed sets of reading materials, photocopying, equipment hire, the purchase of computer software and hardware, and internet services.
Some subjects may incur an additional cost where travel away from the University is involved.

International student fees and costs
Course fees for international students are available from UTS International at:
www.uts.edu.au/international/prospective/studying/fees
Semester fees are subject to increase each academic year, usually between 4-6 per cent.
International students should be aware that, in addition to their course fees, they also need to set aside funds for living expenses. UTS estimates that an international student requires a minimum of A$14,786 to A$25,680 for living expenses for each academic year. It is a requirement of the Department of Immigration and Citizenship that, from 1 July 2012, prospective overseas students demonstrate that they have access to at least A$18,610 a year to fund their living costs in Australia.
There may also be other costs associated with their period of study, including textbooks and other course materials. International students who have school-age dependants need to take into consideration expenses for their dependants during the time they are living in Sydney. Further information is available at:
www.uts.edu.au/about/sydney/cost.html
From 2014 all international students will be required to pay a student services and amenities fee (SSAF) each semester they are enrolled. The SSAF contributes to the provision of amenities and non-academic services for students. As an estimation of the cost, in 2012 the SSAF was A$131.50 a semester for full time students (those enrolled with a study load of 18 credit points or higher a semester). SSAF is subject to annual government set indexation increase and is therefore likely to be higher in 2014.
Further information is available at:
www.sau.uts.edu.au/fees/other/service.html
SERVICES AND FACILITIES

SUPPORT FOR STUDENT LEARNING

Student services
The Student Services Unit provides a range of professional services to support different aspects of student life and learning at UTS.

telephone +61 2 9514 1177
fax +61 2 9514 1172
email student.services@uts.edu.au
www.ssu.uts.edu.au

Orientation
UTS offers a free program of activities and a series of integrated study success lectures before semester begins to help new students manage the transition to university study. There are specially tailored components for part-time, postgraduate and international students, and recent school leavers.

www.orientation.uts.edu.au

Peer network
The peer network program enlists the aid of existing students to assist with the orientation of new students. Both undergraduate and postgraduate students can get involved.

www.ssu.uts.edu.au/peernetwork

Careers
The careers service at City campus offers career guidance and assistance with job placement for students seeking permanent, casual or vacation work.

telephone +61 2 9514 1471
www.careers.uts.edu.au

Chaplaincy
Visiting chaplains and multi-faith centre rooms are available to students. Chaplains come from a number of different faith traditions including different Christian denominations, Buddhism, Judaism and Islam.

telephone +61 2 9514 2523
www.ssu.uts.edu.au/chaplaincy

Counselling
Counsellors are available at both City and Kuring-gai campuses. The service is free of charge and confidential.

City campus
telephone +61 2 9514 1177
Kuring-gai campus
telephone +61 2 9514 5342
www.ssu.uts.edu.au/counselling

English language and academic literacy
Higher education language and presentation support staff assist students with workshops, one-on-one and group consultations, and drop-in support for developing English language, academic writing, academic presentation and conversation skills. These services are free of charge. In between teaching periods, they provide workshop programs on academic writing, tutorial presentation and pronunciation at a nominal cost.

telephone +61 2 9514 1177
www.ssu.uts.edu.au/helpl

Financial assistance
Financial assistance staff assist students with personal financial matters, student loans, Youth Allowance, Austudy and other Centrelink benefits. Students on low incomes may be eligible for grants and assistance in relation to computer access.

telephone +61 2 9514 1177
www.ssu.uts.edu.au/fassistance

Health
Experienced male and female doctors from diverse backgrounds and clinical interests are available at City campus.

telephone +61 2 9514 1177
email Liza.head@uts.edu.au
www.ssu.uts.edu.au/health

Housing
University housing offers four residences to students, all within easy access to City campus. The housing service also provides assistance to students in locating short-term and long-term accommodation in the private rental and share accommodation market.

telephone +61 2 9514 1529
email Amit.Mitra@uts.edu.au
www.housing.uts.edu.au

Special needs
The University has a range of services and procedures to improve access for students with special needs. The special needs service is the central point of contact for students with disabilities and ongoing illnesses or conditions that affect their studies. Consultations with special needs staff about the physical environment, course requirements and the services available can be made well ahead of enrolment, or at any time during enrolment.

Many UTS courses require students to successfully undertake fieldwork, internships and work-integrated learning. UTS is committed to making education accessible and endeavours to accommodate the needs of students with disabilities and illnesses to the greatest extent possible.

Students who have a disability that may affect their participation in work-integrated learning components of their course should discuss this with special needs service staff prior to enrolment. The academic liaison officer within the student’s faculty should be contacted for advice as necessary.

telephone +61 2 9514 1177
fax +61 2 9514 1172
email special.needs@uts.edu.au
www.ssu.uts.edu.au/special-needs

Peer-assisted learning
UTS: Peer Assisted Study Success (U:PASS) is a peer-based learning program designed to assist students undertaking difficult subjects. U:PASS is offered in selected subjects across several faculties. Students meet in small study groups facilitated by peer leaders who have recently completed the subject and achieved high grades. U:PASS sessions are free, informal and responsive to students’ different abilities and needs.

www.ssu.uts.edu.au/peerassisted

Computing facilities at UTS
UTS provides computer facilities for students at City and Kuring-gai campuses. There are over 1300 computers in computer lab and open spaces. There are also group pods for group work activities.

Open spaces have audio visual equipment, desk spaces for setting up a laptop, Wi-Fi connectivity and networked computers.

Student printing
Students can print and scan using the computer labs. There is also printing available from open space computers. As well as printing from a general access computer, students can print from any device by using the MyPrint facility. Details on how to use MyPrint can be found on the service desk knowledge base.

www.ssu.uts.edu.au/peernetwork

Financial assistance
Financial assistance staff assist students with personal financial matters, student loans, Youth Allowance, Austudy and other Centrelink benefits. Students on low incomes may be eligible for grants and assistance in relation to computer access.

telephone +61 2 9514 1177
www.ssu.uts.edu.au/fassistance

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telephone +61 2 9514 1177
email Liza.head@uts.edu.au
www.ssu.uts.edu.au/health

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telephone +61 2 9514 1529
email Amit.Mitra@uts.edu.au
www.housing.uts.edu.au

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telephone +61 2 9514 1177
fax +61 2 9514 1172
email special.needs@uts.edu.au
www.ssu.uts.edu.au/special-needs

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www.ssu.uts.edu.au/peerassisted

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www.ssu.uts.edu.au/peernetwork

Financial assistance
Financial assistance staff assist students with personal financial matters, student loans, Youth Allowance, Austudy and other Centrelink benefits. Students on low incomes may be eligible for grants and assistance in relation to computer access.

telephone +61 2 9514 1177
www.ssu.uts.edu.au/fassistance
Mathematics bridging subjects

The Mathematics and ICT Study Centre (see page 36) provides bridging subjects for students who need mathematics, statistics and basic computing skills for their studies at UTS. If groups of students have particular needs, centre staff can design a bridging subject specifically to meet these needs.

Bridging Mathematics: Day and evening classes are available.

- The Algebra and Functions course is a one-week course designed mainly for students who have not studied Year 11 or 12 Mathematics (2 unit). It is suitable for students who studied General Mathematics at the HSC and are enrolling in courses in business, biological sciences, building and architecture. It is an introduction to basic topics. It is suggested that students also take Introduction to Calculus.

- The Introduction to Calculus course is a one-week course designed mainly for students who have not studied Year 11 or 12 Mathematics (2 unit). It is suitable for students who studied General Mathematics at the HSC and are enrolling in courses in business, biological sciences, building and architecture. It is strongly suggested that students take Algebra and Functions before taking this course.

- The Maths Extension 1 course is a two-week course designed for students who studied Mathematics (2 unit) at the HSC. It is not suitable for students who studied General Mathematics at the HSC.

These courses offered are free for UTS students and carry no equivalent full-time student load (EFTSL) value.

Mathematics Preparation for Nursing: This subject is run during the evening in February. It gives a general introduction to mathematics and science for students entering nursing courses. This subject is free of student contribution amounts and carries no EFTSL value. If there is demand for it, the subject may also be run in July.

Mathematics Bridging for Education: This subject is run in February to assist students entering primary education courses. It is free of student contribution amounts and carries no EFTSL value. If there is demand for it, the subject may also be run in July.

Foundation Mathematics: This subject runs in both Autumn and Spring semesters. It covers much of the content of the Mathematics (2 unit) HSC course and some elements of the Mathematics Extension 1 HSC course, and prepares students for entry into courses that require mathematical skills, such as business; design, architecture and building; engineering; information technology; and science. Students who wish to enrol at the University in the following year are encouraged to take the subject as a non-award subject.

Dr Mary Coupland
City campus, Broadway
telephone +61 2 9514 2241
email Mary.Coupland@uts.edu.au

Physics bridging course

This course is a short introduction to studying physics, designed primarily for students enrolling in engineering or physical sciences (applied chemistry, applied physics, forensic science, nanotechnology) degrees at UTS who have limited background in physics. The course does not attempt to cover HSC physics, but it provides useful advice and background knowledge to assist with tertiary study at UTS.

This course benefits students who are:

- recent school leavers who did not complete HSC physics
- mature-age students returning to study after an extended period
- not strong at mathematics (band 4 or below in HSC mathematics).

Students who have done HSC physics and have reasonable mathematical ability are advised not to do the bridging course as they will have sufficient background for first-year physics subjects.

This course is not suitable for students intending to take an entry examination where physics forms part of the examination, for example the GAMSAT examination.

Dr Jurgen Schulte
City campus, Broadway
telephone +61 2 9514 2206
fax +61 2 9514 2219
email Jurgen.Schulte@uts.edu.au
Academic liaison officers

Each faculty has at least one academic liaison officer (ALO) who is a member of academic staff. ALOs can approve requests for adjustments to assessment arrangements for students with disabilities or ongoing illnesses. ALOs are also contacts for students who experience difficulties because of carer responsibilities. Students are encouraged to see the special needs service (see page 34) before contacting an ALO. Further information is available from the relevant faculty or at: www.ssu.uts.edu.au/sneeds/services/assessment/alo.html

STUDENT LEARNING CENTRES

Chemistry Learning Centre

The Chemistry Learning Centre assists students in their chemistry learning in undergraduate courses in the faculties of Business, Engineering and Information Technology; Health; and Science. The centre is open as demand requires. The centre is staffed by academic staff from the School of Chemistry and Forensic Science. Notices detailing the opening times and personnel on duty are posted as necessary.

For further information, contact:

Era Koirala
CB04.4.31E
City campus, Broadway
telephone +61 2 9514 1787
e-mail Era.Koirala@uts.edu.au

Jumbunna Indigenous House of Learning

Jumbunna Indigenous House of Learning provides a central meeting place for Australian Indigenous students studying at UTS. At Jumbunna, Indigenous students, staff and researchers are committed to improving education and research outcomes that benefit Indigenous communities. Jumbunna focuses on:

• activities that support the recruitment, retention and graduation rates of Indigenous Australians;
• activities that support the teaching and learning issues of Indigenous students and the promotion of Indigenous studies within the University;
• research and advocacy of issues of concern to the Indigenous community.

Student services

Jumbunna Indigenous Student Services provides a range of academic and learning support programs to Indigenous students studying at UTS. Services and facilities available to students include academic and fully funded tutorial assistance, a range of programmed cultural activities, group and private study areas, student common room and kitchen, and two computer laboratories at City and Kuring-gai campuses.

CB01.6 – Building 1, level 6
City campus, Broadway
telephone +61 2 9514 1902
or 1800 064 312 (tollfree)
fax +61 2 9514 1894
KG02.4.47 – Building 2, level 4, room 47
Kuring-gai campus
e-mail jumbunna@uts.edu.au
www.jumbunna.uts.edu.au

Mathematics and ICT Study Centre

The Mathematics and ICT Study Centre offers free assistance with mathematics, statistics and basic computing to students from all faculties. The centre can also assist students with common computing packages such as word processing, spreadsheets, presentation managers, Mathematica, Minitab and SPSS.

The centre runs subjects to assist with particular courses, for example, mathematics for nursing, and workshops such as examination preparation workshops for specific mathematics subjects. Support tutorials are run by staff from the centre in selected undergraduate subjects. The centre also runs short bridging courses (see page 35) in mathematics, statistics and computing. Centre staff are active in education research and the development of resources.

Dr Mary Coupland, Director
CB01.16.15 (drop-in centre)
City campus, Broadway
telephone +61 2 9514 2241
e-mail Mary.Coupland@uts.edu.au
KG02.2.51
Kuring-gai campus

Physics Learning Centre

The Department of Physics and Advanced Materials operates a drop-in Physics Learning Centre (as demand requires). Academic staff members are available at certain times during the semester to assist students with problems they have with their first-year physics studies.

Dr Jurgen Schulte
CB01.12.38
City campus, Broadway
telephone +61 2 9514 2206
telephone +61 2 9514 2219
e-mail Jurgen.Schulte@uts.edu.au

UTS LIBRARY

UTS has two campus libraries, the City Campus Library and the Kuring-gai Campus Library. UTS is widely recognised as providing library services and facilities that are innovative, creative and user-focused. UTS Library offers numerous online and on-campus services, facilities and resources to support the University’s educational and research programs. It provides access to an extensive range of electronic resources including more than 46,000 full-text e-journals (unique titles), over 98,000 e-books, and a collection of approximately one million books, journals and audiovisual items.

Many library services are available online via the library’s website, 24 hours a day. These include the catalogue, subject resources, tutorials, tours and workshops, referencing and writing, borrowing, renewals, BONUS+, and Ask a Librarian. These can also be accessed through any of the library’s 420 computers. The library is now on Facebook, Twitter, YouTube, Foursquare and Flickr.

Facilities on both campuses include individual and group study areas, silent study rooms, discussion and group presentation rooms, a special needs room with adaptive equipment and software, wireless connection zones for laptops, printing and photocopying, express catalogues, self-service loans machines and computer availability checking machines. Library staff provide face-to-face assistance at service points in the library and deliver a comprehensive information skills training program throughout the semester.

The Scholars’ Centre, International Cultural and News Centre, Australian Culture Lounge, Baya Ng’ara Nura Learning Place and CreateSpace are located in the City Campus Library, and the Olympic and Event Studies Room and James O’Brien Room are available for student use at the Kuring-gai Campus Library.

Further information is available at: www.lib.uts.edu.au
CAMPUS LIFE

Child care
UTS Child Care Inc. (UTSCC) coordinates all childcare services at UTS. Hours of operation are 8am to 6.30pm at City campus and 7.45am to 6.15pm at Kuring-gai campus.

Care is available for 0-5 year olds throughout the year. Child care can be accessed on a full-time or part-time basis.

UTS Child Care centres charge a fee comparable to other childcare centres. It is strongly suggested to contact the childcare centre as early as possible as waiting lists may exist. UTS staff and students may be eligible for a number of subsidies to assist with the cost of child care.

Waiting list application forms can be submitted at:
www.childcare.uts.edu.au

Magic Pudding Child Care Centre
corner of Mary Ann and McKee streets, Ultimo
City campus
telephone +61 2 9289 8401

Blackfriars Children’s Centre
4-12 Buckland Street, Chippendale
City campus
telephone +61 2 9514 2959

Kids’ Campus Children’s Centre
Eton Road, Lindfield
Kuring-gai campus
telephone +61 2 9514 5105
www.childcare.uts.edu.au

Co-op Bookshop
The Co-op is a membership-based, not-for-profit organisation, dedicated to providing the widest range of learning resources for its members at the best possible prices. For a one-off $20 joining fee, members receive:
- lifelong Co-op membership
- free delivery within Australia (standard Australia Post delivery)
- everyday member prices
- online savings through the Apple Store for Education
- member-only email offers
- monthly online competitions
- special promotions and pricing
- online savings of up to 50 per cent on phones, tablets, technical items and games.

The Co-op Bookshop has more than 50 years experience and branches located around Australia. Online shopping is available with free standard delivery in Australia. The Co-op Bookshop is at both UTS City and Kuring-gai campuses and stocks all UTS text and recommended readings, along with a great range of fiction and non-fiction titles, software, calculators, and gifts.

3 Broadway (corner of Broadway and Harris Street)
City campus, Broadway
telephone +61 2 9212 3078
email uts@coop-bookshop.com.au

Nursing, Midwifery and Health Specialist Store
Shop 4, Level 2, Bldg 10
235 Jones Street, Ultimo
telephone +61 2 9281 6472

Eton Road, Lindfield
Kuring-gai campus
telephone +61 2 9514 5318
email utskuringgaai@coop-bookshop.com.au
www.coop-bookshop.com.au

Radio 2SER (107.3 FM)

2SER is a community radio station, offering a diverse range of programs, which are mostly provided by volunteers. The station broadcasts 24 hours a day and is heard throughout Sydney on 107.3 FM, digital radio and mobile apps. The station is jointly owned by UTS and Macquarie University, and actively encourages student participation.

The station’s main studios are located on Broadway, Ultimo (in the Terraces), next to the Co-op Bookshop.

More information and information about becoming involved with 2SER is available at:
www.2ser.com

Students’ Association

The Students’ Association (SA) is the representative body for students at UTS. It represents all students of the University on welfare and education issues.

The Students’ Representative Council (SRC) is the group of elected students that enacts, directs and coordinates the work of the SA. Every UTS student has the right to stand for election to the SRC and to vote in the annual elections.

The University supports the existence of professional advocacy staff, for academic and non-academic appeals and to run the peer tutor scheme.

The SA also operates a second-hand textbook shop, a free weekly breakfast, the Bluebird Brekkie Bar, a student newspaper, Vertigo, and it facilitates student support by providing various information, education and action campaigns to benefit students. The Students’ Association, with the University, has also opened a free legal service for all UTS students.

The Students’ Association is home to a number of collectives that run campaigns and hold regular events and meetings.

Further information is available at:
CB01.3
City campus, Broadway
telephone +61 2 9514 1155
KG02.4
Kuring-gai campus
telephone +61 2 9514 1155
www.sa.uts.edu.au

UTS Gallery and Art Collection

UTS Gallery fosters innovative contemporary art, cutting edge design and social inquiry by leading and early career practitioners. As a forum to explore new ideas and culturally diverse perspectives, the gallery expresses the spirit of UTS. Situated on Harris Street in the Faculty of Design, Architecture and Building, UTS Gallery is an exciting place where creativity and technology meets. The vibrant exhibition program is accompanied by publications, talks, forums, performances, workshops and an annual artist-in-residence.

UTS Art Collection comprises over 1000 artworks in its permanent and loan collections in a variety of styles and media, most notably post-1960s paintings, prints and photography. Collection staff provide curatorial services and displays of quality Australian art as an integral element of a vibrant, inclusive campus.

CB06.4
City campus, Broadway
telephone +61 2 9514 1652
fax +61 2 9514 1228
email utsgallery@uts.edu.au
www.utsgallery.uts.edu.au
UTS Union Ltd
The UTS Union is a hub for student engagement and activity. The Union provides students with access to over 100 social and sporting clubs which students can join and be a part of. In addition, the Social Programs team facilitates the creation of new clubs in conjunction with students each semester.

To assist students with the transition to life at UTS, the Sporting and Social Programs teams provide students with a diverse range of activities and events that encourage interaction and engagement within the wider UTS community. Activities available to students range from tours to semester parties to sporting teams and university games championships.

Spanning the two UTS campuses, the Union provides discounted food and beverage facilities, retail outlets and fitness amenities for the benefit of UTS students and staff. Full details are available on the UTS Union website.

CB01.6.08
City campus, Broadway
telephone +61 2 9514 1444
fax +61 2 9514 1636
email unionoffice@uts.edu.au
www.utsunion.uts.edu.au

UTS Haberfield Club Ltd
Dobroyd Parade
Haberfield
telephone +61 2 9797 9523
email unionoffice@uts.edu.au
www.utshaberfieldclub.com.au

UTS Fitness Centre
The Union operates the UTS Fitness Centre, which includes a state-of-the-art cardio theatre, an extensive range of weight training equipment, and multipurpose spaces for group exercise classes and circuit training. Adjacent to the fitness centre is the new Multi-Purpose Sports Hall, which the Union manages on behalf of UTS.

CB04.1
733 Harris St
City campus, Broadway
telephone +61 2 9514 2444
email info@utsfitness.com.au
www.utsunion.uts.edu.au/fitness

SAFETY, SECURITY AND SUSTAINABILITY

Safety and security
The University is committed to providing a safe and healthy workplace for students, staff and visitors. Students and staff must take reasonable care of themselves and others, cooperate with actions taken to protect health and safety and not wilfully place at risk the health, safety or wellbeing of others.

Emergency procedures
Report emergencies to security (24 hours) by dialling 6 from any internal telephone or 1800 249 559 from mobile phones.

Evacuation procedures, including an emergency evacuation video, are available at:

First aid and health service
See the first aid poster in your work or study area for the name, location and phone number of first aid officers. If there is no first aid officer nearby, contact security (24 hours) by dialling 6 from any internal telephone or 1800 249 559 from mobile devices. All security officers are trained in first aid.

The UTS Health Service at City campus, Broadway provides a confidential general medical practice for students and staff. Appointments can be made on:
telephone + 61 2 9514 1177

Hazard, accident/incident reporting
If you are involved in an accident, or if you identify a hazard at UTS, then you should report it using the Hazard and Incident Reporting Online (HIRO) system at:
www.safetyandwellbeing.uts.edu.au/accidents/reporting.html

If the accident is serious, report it to security (24 hours) by dialling 6 from any internal telephone or 1800 249 559 from mobile devices.

Safe work practices
Always follow safe work practices as provided by your lecturer, demonstrator or other supervising staff. This includes wearing any protective equipment required.

Ask for help if you are unsure about how to use a piece of equipment or undertake a task, particularly before carrying out new or unfamiliar work.

Smoke free environment
Smoking is not permitted inside any building on any campus of the University, nor in any University vehicle. This includes areas adjacent to entrances and exits of buildings, windows and air intakes for air conditioners. Smoking is only permitted in designated smoking areas.

Dispose of cigarette butts in the bins provided.

Contact the UTS Health Service for advice regarding quit smoking programs:
telephone +61 2 9514 1177

Campus shuttle bus
The University operates a number of courtesy shuttle bus services for UTS students and staff.

The Kuring-gai shuttle bus service travels between City campus and Kuring-gai campus. The security shuttle bus service travels between City campus, Haymarket, City campus, Broadway and student housing buildings.

Timetables for shuttle bus services are available at:
http://datasearch.uts.edu.au/about/mapsdirections/shuttle.cfm

Lost and found
The security office is the first point of call to check for lost property or to hand in found items. Items are kept for three months and, if unclaimed, may become the property of the person who found the item.

Security systems
All buildings are accessible by a personal identification number (PIN) and are protected by an electronic intrusion detection system and a closed circuit TV network. PINs are available from faculty offices.
Inquiries
**Safety and wellbeing**
telephone +61 2 9514 1326, +61 2 9514 1062, +61 2 9514 1063
download safetyandwellbeing@uts.edu.au
www.safetyandwellbeing.uts.edu.au

**Security and Emergencies**
Dial 6 from any internal telephone or 1800 249 559 from mobile devices.
City campus, Broadway
telephone +61 2 9514 1192
download security.general@uts.edu.au
City campus, Haymarket
telephone +61 2 9514 3399
download security.haymarket@uts.edu.au
Kuring-gai campus
telephone +61 2 9514 5551
download security.kuring-gai@uts.edu.au

**Sustainability**
UTS has a strong commitment to sustainability across all areas of the University in research, teaching and learning, campus operations and community engagement.

**Transport**
UTS promotes sustainable transport with extensive links to trains, buses and light rail, a shuttle bus between campuses, a carpooling program, and bike parking with lockers and showers:
www.green.uts.edu.au/initiatives/transport

**Recycling and waste**
UTS has extensive recycling programs:
www.green.uts.edu.au/initiatives/recycling

**Energy and climate change**
The University has ambitious greenhouse gas reduction targets and energy efficiency initiatives underway:
www.green.uts.edu.au/initiatives/energy

**City campus upgrade**
Sustainability is at the core of the City Campus Master Plan, a $1 billion campus upgrade:
www.fmu.uts.edu.au/masterplan

**Community engagement**
Under the UTS Green banner, students and staff participate in a wide range of sustainability initiatives including events, games, competitions, films, etc.:
- www.green.uts.edu.au
- www.facebook.com/UTSGreen

UTS collaborates with corporate and community partners and is a member of the Australasian Campuses Towards Sustainability (ACTS).

**Research**
Sustainability research at UTS is trans-disciplinary in nature. Examples include the following:
- Institute for Sustainable Futures:
  www.isf.uts.edu.au
- Climate Change Research Cluster:
  www.c3.uts.edu.au
- Centre for Technology in Water and Waste:
  www.research.uts.edu.au/ strengths/ctww

**Teaching and learning**
Sustainability is represented across all faculties and specific study can be undertaken across almost the entire range of degrees and disciplines:
www.green.uts.edu.au/about/teaching-learning

In addition, UTS administers the national sustainability teaching and learning resources hub:
www.sustainability.edu.au

**Governance**
The UTS Sustainability Strategy 2012–2015 is available as a downloadable PDF (319 kb) at:
www.green.uts.edu.au/about/sustainability-strategy/sustainabilitystrategy.html
PRINCIPAL DATES

January
1  New Year’s Day – public holiday
1  Start of Autumn semester for graduate research students
2  Enrolment period for new graduate research students for Autumn semester commences (to 28 March)
2  Summer session classes recommence (to 1 February)
3  Due date for payment for Summer session subjects
3  Early January round UAC undergraduate offers e-released (from 9am)
3  UTS Info Day, City campus, Broadway (9am to 4pm)
4  Closing date (midnight) for UAC change of preference for main round undergraduate offers
5  Census date for Summer session subjects – last day to withdraw from subjects
5  Enrolment of new students for Autumn semester 2013 commences (to 8 March)
5  Supplementary centrally conducted examinations
7  Due date for payment for Summer session subjects
7  Last day to lodge application for review of final assessment result for Spring semester 2012
7  Release of results for December session 2012
7  Main round of UAC undergraduate offers e-released (from 9pm)
8  Deadline for continuing students to re-enrol in subjects for 2013 – late enrolment fee of $250 applies from 19 January
11  Closing date for change of UAC preference for late round of undergraduate offers
12  Last day to submit appeal against exclusion from Spring semester 2012
16  Closing date for UAC change of preference for final round undergraduate offers
16  Closing date for applications for direct admission for specified undergraduate courses, and for honours courses, non-award and cross-institutional enrolment in Autumn semester 2013
16  Third round closing date for local postgraduate coursework applications for Autumn semester 2013
17  Summer session teaching ends for subjects with centrally conducted exams (commenced 3 December 2012)
18  Centrally conducted examinations for Summer session
18  Final round undergraduate UAC offers e-released (from 9am)
19  Orientation for new students, City campus
20  UTS Union Clubs and Activities Day, Kuring-gai campus
20  Orientation for new students, Kuring-gai campus
20  UTS Union O’fest, City campus
22  Due date for payment of fees for continuing international students for Autumn semester 2013
22  Autumn semester classes commence
March
1  Closing date for applications for UTS Union Elite Athlete Program (sports scholarships)
2  Late Orientation day for new students
8  Enrolment of new students for Autumn semester 2013 ends (commenced 7 January)
8  Last date to apply for name change (for graduation program and on-stage pronunciation) and pay outstanding fees/ fines owed to UTS for graduation at Autumn 2013 graduation ceremonies
8  Last day to be admitted to a course or enrol in (add) subjects for Autumn semester 2013
8  Mid-semester centrally conducted examinations timetable available
11  March session commences (ends 19 April)
14  Due date for payment of fees for domestic fee-paying students for Autumn semester 2013
Principal dates

**April**

1. Easter Monday – public holiday
2. Graduation registration closes (opened 21 March)
3. Mid-semester centrally conducted examinations
4. NSW public school holidays
5. Vice-Chancellor’s week, Autumn semester
6. ANZAC Day – public holiday
7. Release of results for March session
8. May session commences (ends 7 June)

**May**

1. Graduation ceremonies, City campus
2. Due date for payment for May session subjects
3. Examination timetable for centrally conducted examinations for Autumn semester available
4. Census date for graduate research degree thesis subjects
5. Last day for graduate research students to lodge application to change attendance pattern, withdraw, or take leave of absence from thesis subjects for Autumn semester
6. Last day to lodge an application for review of final assessment result for March session
7. Due date for payment of student services and amenities fee for domestic higher degree research students for Autumn semester 2013
8. Closing date for postgraduate research degree applications for Spring semester 2013
9. First round closing date for local postgraduate coursework applications for Spring semester 2013

**June**

1. Closing date for undergraduate UAC applications for Spring semester 2013
2. Last teaching day of Autumn semester
3. May session ends (commenced 29 April)
4. Centrally conducted examinations for Autumn semester
5. Queen’s Birthday – public holiday
6. Enrolment of new students for Spring semester 2013 commences (to 9 August)
7. Release of results for May session
8. Closing date for applications for admission to undergraduate and postgraduate coursework courses from international students for Spring semester 2013
9. July session commences (ends 26 July)
10. Undergraduate UAC offers for Spring semester 2013 e-released
11. Due date for payment for July session subjects
12. Closing date for applications for internal course transfer for Spring semester 2013 (opened 8 April)
13. Closing date for direct applications for specified undergraduate courses and for non-award and cross-institutional enrolment in Spring semester 2013
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Closing date for international exchange outbound applications</td>
</tr>
<tr>
<td></td>
<td>Farewell ceremony for international students completing studies in Autumn semester</td>
</tr>
<tr>
<td></td>
<td>Last day to lodge an application for review of final assessment result for May session</td>
</tr>
<tr>
<td></td>
<td>Second round closing date for local postgraduate coursework applications for Spring semester 2013</td>
</tr>
<tr>
<td></td>
<td>International graduation ceremonies (offshore) commence (end 4 July)</td>
</tr>
<tr>
<td>30</td>
<td>Last day of Autumn semester for graduate research students</td>
</tr>
<tr>
<td></td>
<td><strong>July</strong></td>
</tr>
<tr>
<td>1</td>
<td>Census date for July session subjects</td>
</tr>
<tr>
<td></td>
<td>Enrolment period for new graduate research students for Spring semester 2013 commences (to 30 August)</td>
</tr>
<tr>
<td></td>
<td>Start of Spring semester for graduate research students</td>
</tr>
<tr>
<td>1–12</td>
<td>NSW public school holidays</td>
</tr>
<tr>
<td>4</td>
<td>International graduation ceremonies (offshore) end (commenced 29 June)</td>
</tr>
<tr>
<td>17</td>
<td>Release of Autumn semester results</td>
</tr>
<tr>
<td>22–26</td>
<td>Orientation for new students</td>
</tr>
<tr>
<td>23</td>
<td>Supplementary centrally conducted examinations</td>
</tr>
<tr>
<td>26</td>
<td>Due date for payment of fees for continuing international students for Spring semester 2013</td>
</tr>
<tr>
<td>29</td>
<td>Spring semester classes commence</td>
</tr>
<tr>
<td>31</td>
<td>Last day to lodge an application for review of final assessment result for Autumn semester 2013</td>
</tr>
<tr>
<td></td>
<td><strong>August</strong></td>
</tr>
<tr>
<td>2</td>
<td>Last date to apply for name change (for graduation program and on-stage pronunciation) and pay outstanding fees/ fines owed to UTS for graduation at Spring 2013 graduation ceremonies</td>
</tr>
<tr>
<td></td>
<td>Release of results for July session</td>
</tr>
<tr>
<td>3</td>
<td>Late Orientation day for new students</td>
</tr>
<tr>
<td>6</td>
<td>UTS Vacation, Internship and Volunteer Fair</td>
</tr>
<tr>
<td>7</td>
<td>Applications available for undergraduate courses for Autumn semester 2014</td>
</tr>
<tr>
<td>9</td>
<td>Enrolment of new students for Spring semester 2013 ends (commenced 11 June)</td>
</tr>
<tr>
<td></td>
<td>Last day to be admitted to a course or to enrol in (add) subjects for Spring semester 2013</td>
</tr>
<tr>
<td>12</td>
<td>August session commences (ends 20 September)</td>
</tr>
<tr>
<td>14</td>
<td>Last date for students to have a status of passed displayed in My Student Admin for graduation at Spring 2013 graduation ceremonies</td>
</tr>
<tr>
<td>16</td>
<td>Due date for payment of fees for domestic fee-paying students for Spring semester 2013</td>
</tr>
<tr>
<td>16</td>
<td>Last day to lodge an application for review of final assessment result for July session</td>
</tr>
<tr>
<td>16</td>
<td>Mid-semester centrally conducted examinations timetable available</td>
</tr>
<tr>
<td>20</td>
<td>Closing date for International Postgraduate Research Scholarships (IPRS)</td>
</tr>
<tr>
<td>20</td>
<td>Due date for payment of upfront or partial contributions for students in Commonwealth-supported places for Spring semester 2013</td>
</tr>
<tr>
<td>22</td>
<td>Graduation registration opens (closes 6 September)</td>
</tr>
<tr>
<td>25</td>
<td>Due date for payment for August session subjects</td>
</tr>
<tr>
<td>30</td>
<td>Census date for Spring semester and August session subjects – last day to withdraw from coursework subjects</td>
</tr>
<tr>
<td>30</td>
<td>Enrolment of new graduate research students for Spring semester 2013 ends (commenced 1 July)</td>
</tr>
<tr>
<td>31</td>
<td>UTS Open Day, City campus</td>
</tr>
<tr>
<td></td>
<td><strong>September</strong></td>
</tr>
<tr>
<td>5</td>
<td>Applications available for direct admission for specified undergraduate courses, and for honours courses, non-award and cross-institutional enrolment for Autumn semester 2014</td>
</tr>
<tr>
<td>5</td>
<td>Applications available for postgraduate coursework programs for Autumn semester 2014</td>
</tr>
<tr>
<td>5</td>
<td>Applications for internal course transfer for Autumn semester 2014 open (close 13 December 2013)</td>
</tr>
<tr>
<td>5</td>
<td>Graduation registration closes (opened 22 August)</td>
</tr>
<tr>
<td>7</td>
<td>UTS Open Day, Kuring-gai campus</td>
</tr>
<tr>
<td>12</td>
<td>Due date for payment of student services and amenities fee for Commonwealth-supported and domestic fee-paying students for Spring semester 2013</td>
</tr>
<tr>
<td>20</td>
<td>August session ends (commenced 12 August)</td>
</tr>
</tbody>
</table>
UTS: Handbook 2013

**General information: Principal dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>NSW public school holidays commence (end 7 October)</td>
</tr>
<tr>
<td>23–27</td>
<td>Mid-semester centrally conducted examinations</td>
</tr>
<tr>
<td>27</td>
<td>Release of results for August session</td>
</tr>
<tr>
<td>30</td>
<td>Closing date for applications for admission to postgraduate research courses from international students for Autumn semester 2014</td>
</tr>
<tr>
<td>30</td>
<td>Closing date for on-time undergraduate UAC applications</td>
</tr>
<tr>
<td>30</td>
<td>Graduation ceremonies, City campus, commence (end 4 October)</td>
</tr>
<tr>
<td>30</td>
<td>October session commences (ends 8 November)</td>
</tr>
<tr>
<td>30</td>
<td>Vice-Chancellor’s week, Spring semester commences (ends 4 October)</td>
</tr>
</tbody>
</table>

**October**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Due date for payment for October session subjects</td>
</tr>
<tr>
<td>4</td>
<td>Examination timetable for centrally conducted examinations for Spring semester available</td>
</tr>
<tr>
<td>4</td>
<td>Graduation ceremonies, City campus, end (commenced 30 September)</td>
</tr>
<tr>
<td>4</td>
<td>Vice-Chancellor’s week, Spring semester ends (commenced 30 September)</td>
</tr>
<tr>
<td>7</td>
<td>Labour Day – public holiday</td>
</tr>
<tr>
<td>7</td>
<td>NSW public school holidays end (commenced 23 September)</td>
</tr>
<tr>
<td>8</td>
<td>Census date for graduate research degree thesis subjects³</td>
</tr>
<tr>
<td>8</td>
<td>Census date for October session subjects³</td>
</tr>
<tr>
<td>8</td>
<td>December session 2013 and Summer session 2014 timetable published online</td>
</tr>
<tr>
<td>8</td>
<td>Last day for graduate research students to lodge application to change attendance pattern, withdraw, or take leave of absence from thesis subjects for Spring semester</td>
</tr>
<tr>
<td>11</td>
<td>Last day to lodge an application for review of final assessment result for August session</td>
</tr>
<tr>
<td>15</td>
<td>Due date for payment of student services and amenities fee for domestic higher degree research students for Spring semester 2013</td>
</tr>
<tr>
<td>25</td>
<td>Closing date for Australian Postgraduate Awards, RL Werner and University doctoral scholarships³</td>
</tr>
<tr>
<td>25</td>
<td>Closing date for postgraduate research degree applications for Autumn semester 2014</td>
</tr>
<tr>
<td>28</td>
<td>2014 University timetable published online</td>
</tr>
<tr>
<td>31</td>
<td>Closing date for late undergraduate UAC applications (late fees apply)</td>
</tr>
<tr>
<td>31</td>
<td>First-round closing date for local postgraduate coursework applications for Autumn semester 2014</td>
</tr>
</tbody>
</table>

**November**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Last teaching day of Spring semester</td>
</tr>
<tr>
<td>8</td>
<td>October session ends (commenced 30 September)</td>
</tr>
<tr>
<td>9–29</td>
<td>Centrally conducted examinations for Spring semester</td>
</tr>
<tr>
<td>15</td>
<td>Release of results for October session</td>
</tr>
<tr>
<td>18</td>
<td>December session commences (ends 3 January 2014)</td>
</tr>
<tr>
<td>27</td>
<td>Due date for payment for December session subjects</td>
</tr>
<tr>
<td>29</td>
<td>Closing date for international exchange outbound applications</td>
</tr>
<tr>
<td>29</td>
<td>Closing date for late undergraduate UAC applications (late fees apply)</td>
</tr>
<tr>
<td>29</td>
<td>Farewell ceremony for international students completing studies in Spring semester 2013</td>
</tr>
<tr>
<td>29</td>
<td>Last day to lodge an application for review of final assessment result for October session</td>
</tr>
<tr>
<td>29</td>
<td>Second round closing date for local postgraduate coursework applications for Autumn semester 2014</td>
</tr>
</tbody>
</table>

**December**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Census date for December session subjects³</td>
</tr>
<tr>
<td>2</td>
<td>Elite Athlete Program (sports scholarships) applications open³</td>
</tr>
<tr>
<td>2</td>
<td>Summer session commences (to 31 January 2014)</td>
</tr>
<tr>
<td>13</td>
<td>Closing date for applications for internal course transfer for Autumn semester 2014 (opened 5 September)</td>
</tr>
<tr>
<td>13</td>
<td>Closing date for late undergraduate UAC applications (late fees apply)</td>
</tr>
<tr>
<td>15</td>
<td>Closing date for application for admission to undergraduate and postgraduate coursework courses from international students for Autumn semester 2014</td>
</tr>
<tr>
<td>16</td>
<td>Examination timetable for centrally conducted examinations for Summer session available</td>
</tr>
<tr>
<td>18</td>
<td>Release of Spring semester results</td>
</tr>
</tbody>
</table>
23 NSW public school holidays commence (to 27 January 2014)
25 Christmas Day – public holiday
26 Boxing Day – public holiday
31 Last day of Spring semester for graduate research students

Australian Tertiary Admission Ranks (ATARs) released by UAC*
NSW Higher School Certificate (HSC) results released*

1. Enrolment for new coursework students occurs online or on campus during designated enrolment sessions. New students accept their offer via www.start.uts.edu.au Graduate research students should refer to the University Graduate School enrolment website (www.gradschool.uts.edu.au).

2. Information about the application and closing dates for all scholarships is available on the scholarships website (http://dasearch.uts.edu.au/study/scholarships/).

3. HECS-HELP, FEE-HELP, domestic award, and international fee payment information is available from the Student Administration website (www.sau.uts.edu.au/fees). Full financial liability applies after the census dates. For onshore and offshore census dates and details for all teaching periods, see Academic year dates.

4. Dates for the release of 2012 HSC results and ATARs to be confirmed; see NSW Government HSC website (www.nsw.gov.au/higher-school-certificate) and UAC website (www.uac.edu.au) for further information.

5. Census dates for research degree students are later in the year for Autumn and Spring semesters due to the flexible start dates for these students at UTS. Full financial and load liability applies after these census dates. More information is available at: www.gradschool.uts.edu.au

Note: Information is correct as at September 2012. The University reserves the right to vary any information described in Principal dates 2013 without notice.
# Academic Year Dates

## 2013

### Onshore – Main teaching periods

<table>
<thead>
<tr>
<th>Period</th>
<th>Date/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summer session</strong></td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 3 December 2012</td>
</tr>
<tr>
<td>Christmas/New Year University recess</td>
<td>Tuesday 25 December 2012 – Tuesday 1 January 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 7 January 2013</td>
</tr>
<tr>
<td>Teaching ends (for subjects with centrally conducted examinations)</td>
<td>Friday 1 February 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Monday 4 February 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 8 February 2013</td>
</tr>
<tr>
<td><strong>Autumn semester</strong></td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 25 February 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Thursday 28 March 2013</td>
</tr>
<tr>
<td>Vice-Chancellor’s week</td>
<td>Monday 22 – Friday 26 April 2013</td>
</tr>
<tr>
<td>Teaching ends</td>
<td>Friday 7 June 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Saturday 8 June 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 28 June 2013</td>
</tr>
<tr>
<td><strong>Spring semester</strong></td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 29 July 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Friday 30 August 2013</td>
</tr>
<tr>
<td>Vice-Chancellor’s week</td>
<td>Monday 30 September – Friday 4 October 2013</td>
</tr>
<tr>
<td>Teaching ends</td>
<td>Friday 8 November 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Saturday 9 November 2013</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 29 November 2013</td>
</tr>
</tbody>
</table>

### Onshore – Short teaching periods

<table>
<thead>
<tr>
<th>Period</th>
<th>Date/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>March session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 11 March 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Thursday 28 March 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 19 April 2013</td>
</tr>
<tr>
<td><strong>May session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 29 April 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Tuesday 7 May 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 7 June 2013</td>
</tr>
<tr>
<td><strong>July session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 17 June 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 1 July 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 26 July 2013</td>
</tr>
<tr>
<td><strong>August session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 12 August 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Friday 30 August 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 20 September 2013</td>
</tr>
<tr>
<td><strong>October session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 30 September 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Tuesday 8 October 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 8 November 2013</td>
</tr>
<tr>
<td><strong>December session</strong></td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 18 November 2013</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 2 December 2013</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 3 January 2014</td>
</tr>
</tbody>
</table>
### Offshore only – Other teaching periods

<table>
<thead>
<tr>
<th>Semester</th>
<th>Commences</th>
<th>Census Date</th>
<th>Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>January to March semester</strong></td>
<td>Maybe 17 December 2012</td>
<td>Monday 7 January 2013</td>
<td>Friday 22 March 2013</td>
</tr>
<tr>
<td><strong>March to May semester</strong></td>
<td>Monday 4 March 2013</td>
<td>Thursday 28 March 2013</td>
<td>Friday 7 June 2013</td>
</tr>
<tr>
<td><strong>May to July semester</strong></td>
<td>Monday 15 April 2013</td>
<td>Tuesday 7 May 2013</td>
<td>Friday 19 July 2013</td>
</tr>
<tr>
<td><strong>July to September semester</strong></td>
<td>Monday 3 June 2013</td>
<td>Monday 1 July 2013</td>
<td>Friday 6 September 2013</td>
</tr>
<tr>
<td><strong>August to October semester</strong></td>
<td>Monday 5 August 2013</td>
<td>Friday 30 August 2013</td>
<td>Friday 8 November 2013</td>
</tr>
<tr>
<td><strong>October to December semester</strong></td>
<td>Monday 16 September 2013</td>
<td>Tuesday 8 October 2013</td>
<td>Friday 20 December 2013</td>
</tr>
<tr>
<td><strong>December to February semester</strong></td>
<td>Monday 4 November 2013</td>
<td>Monday 2 December 2013</td>
<td>Friday 7 February 2014</td>
</tr>
</tbody>
</table>

Note: Unless otherwise specified for particular subjects, all examinations are conducted within the teaching period. Different census dates apply for graduate research students (see [www.gradschool.uts.edu.au](http://www.gradschool.uts.edu.au)).
## 2014

### Onshore – Main teaching periods

<table>
<thead>
<tr>
<th>Period</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer session</td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 2 December 2013</td>
</tr>
<tr>
<td>Christmas/New Year University recess</td>
<td>Wednesday 25 December 2013 – Wednesday 1 January 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 13 January 2014</td>
</tr>
<tr>
<td>Teaching ends (for subjects with centrally conducted examinations)</td>
<td>Friday 31 January 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Monday 3 February 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 7 February 2014</td>
</tr>
<tr>
<td>Autumn semester</td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 24 February 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 31 March 2014</td>
</tr>
<tr>
<td>Vice-Chancellor’s week</td>
<td>Monday 21 – Friday 25 April 2014</td>
</tr>
<tr>
<td>Teaching ends</td>
<td>Friday 6 June 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Saturday 7 June 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 27 June 2014</td>
</tr>
<tr>
<td>Spring semester</td>
<td></td>
</tr>
<tr>
<td>Teaching commences</td>
<td>Monday 28 July 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Friday 29 August 2014</td>
</tr>
<tr>
<td>Vice-Chancellor’s week</td>
<td>Monday 29 September – Friday 3 October 2014</td>
</tr>
<tr>
<td>Teaching ends</td>
<td>Friday 7 November 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations commence</td>
<td>Saturday 8 November 2014</td>
</tr>
<tr>
<td>Centrally conducted examinations end</td>
<td>Friday 28 November 2014</td>
</tr>
</tbody>
</table>

### Onshore – Short teaching periods

<table>
<thead>
<tr>
<th>Period</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>March session</td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 10 March 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Monday 31 March 2014</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 18 April 2014</td>
</tr>
<tr>
<td>May session</td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 28 April 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Tuesday 6 May 2014</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 6 June 2014</td>
</tr>
<tr>
<td>July session</td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 16 June 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Tuesday 1 July 2014</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 25 July 2014</td>
</tr>
<tr>
<td>August session</td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 11 August 2014</td>
</tr>
<tr>
<td>Census date</td>
<td>Friday 29 August 2014</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 19 September 2014</td>
</tr>
<tr>
<td>October session</td>
<td></td>
</tr>
<tr>
<td>Session commences</td>
<td>Monday 29 September 2014</td>
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<td>Census date</td>
<td>Tuesday 7 October 2014</td>
</tr>
<tr>
<td>Session ends</td>
<td>Friday 7 November 2014</td>
</tr>
<tr>
<td>December session</td>
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</tbody>
</table>
### Offshore only – Other teaching periods

<table>
<thead>
<tr>
<th>Semester</th>
<th>Commences</th>
<th>Census Date</th>
<th>Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>January to March semester</strong></td>
<td></td>
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<tr>
<td>Semester commences</td>
<td>Monday 16 Dec 2013</td>
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<tr>
<td>Census date</td>
<td>Monday 13 Jan 2014</td>
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<tr>
<td>Semester ends</td>
<td>Friday 21 Mar 2014</td>
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<tr>
<td><strong>March to May semester</strong></td>
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<tr>
<td>Semester commences</td>
<td>Monday 3 Mar 2014</td>
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<tr>
<td>Census date</td>
<td>Monday 31 Mar 2014</td>
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<tr>
<td>Semester ends</td>
<td>Friday 6 Jun 2014</td>
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<tr>
<td><strong>May to July semester</strong></td>
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<tr>
<td>Semester commences</td>
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<tr>
<td>Census date</td>
<td>Tuesday 6 May 2014</td>
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<tr>
<td>Semester ends</td>
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<tr>
<td><strong>July to September semester</strong></td>
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<tr>
<td>Semester commences</td>
<td>Monday 2 Jun 2014</td>
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<tr>
<td>Census date</td>
<td>Tuesday 1 Jul 2014</td>
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<tr>
<td>Semester ends</td>
<td>Friday 5 Sept 2014</td>
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<tr>
<td><strong>August to October semester</strong></td>
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<tr>
<td>Semester commences</td>
<td>Monday 4 Aug 2014</td>
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<tr>
<td>Census date</td>
<td>Friday 29 Aug 2014</td>
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<tr>
<td>Semester ends</td>
<td>Friday 7 Nov 2014</td>
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<tr>
<td><strong>October to December semester</strong></td>
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<tr>
<td>Semester commences</td>
<td>Monday 15 Sep 2014</td>
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<tr>
<td>Census date</td>
<td>Tuesday 7 Oct 2014</td>
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<tr>
<td>Semester ends</td>
<td>Friday 19 Dec 2014</td>
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<tr>
<td><strong>December to February semester</strong></td>
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<tr>
<td>Semester commences</td>
<td>Monday 3 Nov 2014</td>
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<tr>
<td>Census date</td>
<td>Monday 1 Dec 2014</td>
<td></td>
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</tr>
<tr>
<td>Semester ends</td>
<td>Friday 6 Feb 2015</td>
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Note: Unless otherwise specified for particular subjects, all examinations are conducted within the teaching period. Different census dates apply for graduate research students (see [www.gradschool.uts.edu.au](http://www.gradschool.uts.edu.au)).
UTS: BUSINESS

Information for students
UTS: Business is located on two campuses: City campus (Haymarket) and Kuring-gai campus (Lindfield). UTS: Business courses are administered by the UTS Business School. The business school consists of five discipline groups: Accounting; Economics; Finance; Management; and Marketing. All postgraduate courses are administered by the Graduate School of Business.

Location, contacts and inquiries
Student Centre, Haymarket
The Student Centre, Haymarket manages the student administration activities of the faculty and is responsible for a broad range of activities including admission, enrolment, graduation, course information, promotion and student matters.
See also the business school website at:
www.business.uts.edu.au

Undergraduate inquiries
Student Centre, Haymarket
CM05C.1.3
Level 1, Building 5
Quay Street, Haymarket
telephone +61 2 9514 3500 and +61 2 9514 1222
fax +61 2 9514 3654 and +61 2 9514 1200
Ask UTS www.ask.uts.edu.au
Postal address
UTS Student Centre
University of Technology, Sydney
PO Box 123
Broadway NSW 2007
www.sau.uts.edu.au

Student Centre, Kuring-gai
KG01.5
Foyer, Level 5, Building 1
Eton Road, Lindfield
telephone +61 2 9514 5355 and +61 2 9514 1222
fax +61 2 9514 5398 and +61 2 9514 1200
Ask UTS www.ask.uts.edu.au

Postal address
UTS Student Centre
University of Technology, Sydney
PO Box 123
Broadway NSW 2007
www.sau.uts.edu.au

Graduate inquiries
Student Centre, Haymarket
CM05C.5.25
Level 5, Building 5
Quay Street, Haymarket
telephone +61 2 9514 3660 and +61 2 9514 1222
fax +61 2 9514 3554 and +61 2 9514 1200
Ask UTS www.ask.uts.edu.au
www.gsb.uts.edu.au

Postal address
UTS Student Centre
University of Technology, Sydney
PO Box 123
Broadway NSW 2007

Executive Development Unit
CM05B.4.31
Quay Street, Haymarket
telephone +61 2 9514 3504
fax +61 2 9514 3510
email executive.development@uts.edu.au
www.gsb.uts.edu.au/edu

Office hours
9am–5pm Monday to Friday

Discipline Group offices
All discipline group offices are open 9am–5pm Monday to Friday. Inquiries regarding lectures, assignments and the consultation times of lecturers on both campuses should be directed to the discipline group offices during business hours.

Accounting Discipline Group
City campus
CM05C.3.1
Quay Street, Haymarket
telephone +61 2 9514 3500
fax +61 2 9514 3669

Kuring-gai campus
KG04.6.1
Eton Road, Lindfield
telephone +61 2 9514 5585
fax +61 2 9514 5515

Economics Discipline Group
City campus
CM05D.3.53
Quay Street, Haymarket
telephone +61 2 9514 7777
fax +61 2 9514 7711

Kuring-gai campus
KG04.6.1
Eton Road, Lindfield
telephone +61 2 9514 5460
fax +61 2 9514 5515

Finance Discipline Group
City campus
CM05D.3.53
Quay Street, Haymarket
telephone +61 2 9514 7777
fax +61 2 9514 7711

Kuring-gai campus
KG04.6.1
Eton Road, Lindfield
telephone +61 2 9514 5460
fax +61 2 9514 5515

Management Discipline Group
City campus
CM05C.4.27
Quay Street, Haymarket
telephone +61 2 9514 3614
fax +61 2 9514 3602

Kuring-gai campus
KG04.5.2A
Eton Road, Lindfield
telephone +61 2 9514 5311
fax +61 2 9514 5583
KG01.6.84
Eton Road, Lindfield
telephone +61 2 9514 5497
fax +61 2 9514 5195
Marketing Discipline Group
City campus
CM05C.2.2
Quay Street, Haymarket
telephone +61 2 9514 3522
fax +61 2 9514 3535

Graduate attributes
A graduate from the UTS Business School is expected to possess the following attributes:

- Business knowledge and concepts: be able to operate effectively with business knowledge of sufficient depth in different professions, industry and society, both locally and globally.
- Critical thinking, creativity and analytical skills: be able to apply and demonstrate critical and analytical skills, and innovation in business practice.
- Communication and Interpersonal skills: be able to use communication skills (reading/writing and listening/speaking) to work with others and be self-reflective.
- Attitudes and values: have an awareness of obligations and responsibilities in business and their impact.
- Business practice-oriented skills: be able to integrate generic, technical and professional skills including being proficient in technology, to operate effectively in various industry contexts with the capacity to anticipate and respond to change.

These graduate attributes overarch each of the Business School’s undergraduate and postgraduate programs, but each of these programs in turn have their own distinct set of graduate attributes, known as learning goals, which need to be assured as part of the Business School’s AACSB accreditation, through a set of aligned learning objectives.

AIESEC
AIESEC is the world’s largest student organisation. Existing in 110 countries around the world and with over 38,000 members, AIESEC aims to promote cultural awareness and international understanding, develop practical managerial skills for its members and bridge the gap between students, academics and the business sector.

It is AIESEC’s membership base of determined and committed students who contribute to changing people’s lives and developing themselves as leaders. This is achieved through activities such as AIESEC’s international exchange programs, team building, marketing, project management and national and international conferences. AIESEC also provides opportunities to gain business contacts and make new friends.

AIESEC provides students with the ability not only to do something for themselves, but also to have an impact on the lives of people around the world in many different ways.

Further information on exchange and membership is available at:

CM05B.1.06
City campus, Haymarket
email aiesec.uts@aiesec.net
www.aiesec.org

Short business courses and executive development
UTS: Business offers a range of executive development programs and short, intensive courses in specialist professional topics. Executive certificate programs are offered in banking, business accounting, business management, economics, event management, finance, financial analysis, insurance, leadership, leisure and tourism, marketing, project management and quantitative finance. In addition to its advertised programs, UTS: Business also develops in-house programs tailored to specific corporate needs. Business specialists within UTS: Business also co-create customised programs with corporate leaders using problem-solving and strategic design techniques to advance their talent, operations and competitive edge.

Further information is available from:
Executive Development Unit
telephone +61 2 9514 3504
fax +61 2 9514 3510
email executive.development@uts.edu.au
www.gsb.uts.edu.au/edu

Undergraduate course information
UTS: Business offers a wide range of courses spanning the traditional disciplines of accounting, economics, finance, management and marketing.

Additional rules of importance to undergraduate coursework students
Credit recognition (exemptions)
Students who are enrolled in UTS: Business courses and who have previously studied at another university or other recognised tertiary educational institution may be eligible for credit recognition in the form of subject exemptions, if the subjects previously studied are deemed by UTS: Business to be equivalent to those specified for their course.

Requests for exemptions for more than one-third and up to two-thirds of the degree may be considered by the Business School Board. Students are required to apply for exemptions at enrolment in their first semester of study. If a student wishes to request exemptions after their first semester of study they are advised to make an appointment with a student adviser in the student centre either at Haymarket or Kuring-gai.

Students should note that exemptions given in one course at UTS will not necessarily be transferred to another course at UTS after a successful internal course transfer has occurred.

Further information on credit recognition for undergraduate students in UTS: Business is available at:
www.business.uts.edu.au/student/admin/rpl/
Further details can also be obtained from the Student Centres at Haymarket and Kuring-gai.

Credit recognition forms are available at:
www.sau.uts.edu.au/forms

Internal course transfer
While students may gain entry to a particular course, they may choose to apply for entry to a different course within the field of business. Where a student articulates from one level of study to another, only one testamur is issued. Further information is available from the Student Centre, Haymarket.

Students from combined degrees: Students in combined degrees should normally graduate from their combined degree at one ceremony, though receiving two testamurs.

If a student wishes to graduate with the Bachelor of Business only, the student should meet one of the following criteria:
- a UAI/ATAR score equivalent or higher to the entry level for the year they began their studies, or
- the standard internal course transfer criteria, that includes an overall credit average and a minimum of 48 credit points of completed study.

If a student is successful in transferring to the single Bachelor of Business degree, the student must satisfy the academic and credit point requirements of the Bachelor of Business, which are:
- 48 credit points comprising business core subjects
- 48 credit points comprising a first business major subject
- 48 credit points comprising either a second business major; or two sub-majors; or one sub-major and four electives.

Internal course transfer information and forms are available at:
www.sau.uts.edu.au/enrolment/course/transfer

Academic progression
All students are expected to meet minimum academic requirements. Students must pass 50 per cent of the credit points in which they are enrolled each half year. If this requirement is not met, students are placed on academic caution. During a period of academic caution, usually one half year, a student must consult with the designated academic course advisers from the relevant faculty for advice on their study plan; attend a study skills workshop program organised by the Student Services Unit; and enrol in no more than 24 credit points for the semester to which the period of academic caution applies.

Further information about academic caution is available at:
www.sau.uts.edu.au/academic/caution.html
Majors and sub-majors
To have a major or sub-major noted on a final transcript, students must complete at least 75 per cent of the subjects in that major or sub-major at UTS; the other 25 per cent of the subjects may be given as credit recognition from previous studies at another university (subject to approval), under any approved undergraduate course.

Policy on subject substitution
Where there is an overlap of a subject between majors and sub-majors, students must substitute an undergraduate subject chosen from within the particular discipline (subject to approval). The subject chosen should enable students to meet the objectives of the relevant major(s) or sub-major(s) and make up the required number of credit points. Students are still required to meet normal prerequisite conditions in choosing a substitute subject. As some majors have specific substitution rules, students should refer to the information on specific majors.

Students must apply for subject substitution before undertaking the subject. Subject substitution forms are available from the Student Centre, Haymarket and must be submitted back at the Student Centre, Haymarket at least four weeks before the start of the semester of intended study.

Electives
When choosing electives, students should be aware that all prerequisites must be met and that no elective may be materially similar to other subjects taken as part of the student’s undergraduate degree. Students who wish to undertake cross-faculty electives within UTS, or do concurrent study with other universities, should seek approval from UTS: Business. UTS: Business reserves the right to approve a student’s choice of electives. Students are accommodated in subjects depending on the availability of class places.

Students from other faculties applying to undertake business electives
Students from other faculties may undertake subjects offered by UTS: Business as an elective if they have met all the prerequisites. Students are accommodated in subjects depending on the availability of class places. It is the responsibility of students to ensure that their own faculty approves their choice of business elective(s) according to the requirements of the program in which they are enrolled.

Semester load
Full-time study is usually undertaken at the normal load of 24 credit points a semester. Students who wish to undertake more than the normal full-time load in one semester must have their study plan endorsed by a student adviser from the Student Centre, Haymarket. Part-time study is usually undertaken at the normal rate of 12 credit points a semester. Note that there are set criteria before approval can be granted to exceed the normal full-time load.

Attendance
Most courses are offered part time (one or two subjects a semester) or full time (three or four subjects a semester). Up to an extra two subjects (if offered) may be taken in Summer session to fast-track study. Local students may attend part time or full time. International students must enrol in a minimum of four subjects a semester to meet Department of Immigration and Citizenship requirements, and a maximum of four subjects a semester.

Subject attendance requirements
Students are required to be punctual and regular in attendance for all classes in the subjects in which they are enrolled. It is the student’s responsibility to study all material provided, or required to be accessed, to maximise their chance of meeting the objectives of the subject and to be informed of subject-related activities and administration.

International students in Australia are advised to attend all classes. Failure to attend may infringe conditions of the student visa. Information on the campus, day and time that individual subjects are offered is available from the UTS timetable at:

http://timetable.uts.edu.au

Forms
All undergraduate forms are available at:

www.sau.uts.edu.au/forms

Majors
A major consists of 48 credit points of study (eight 6-credit-point subjects) in a related area. Students enrolled in the Bachelor of Engineering Bachelor of Business (C10065) (see page 148); Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice (C10088) (see page 157); Bachelor of Business Bachelor of Laws (C10125) (see page 181); Bachelor of Biotechnology Bachelor of Business (C10169) (see page 214); Bachelor of Medical Science Bachelor of Business (C10163) (see page 208); Bachelor of Science Bachelor of Business (C10162) (see page 203); Bachelor of Business Bachelor of Computing (C10219) (see page 226); or any other combined degree, are ineligible to undertake the Information Technology major in the Bachelor of Business component of the combined degree. Students enrolled in these courses are required to complete a business major offered by a school or schools within UTS; Majors are listed below.

Note: Details of the subjects within each major are provided in the study package directory.

- Accounting (MAJ08437)
- Economics (MAJ09209)
- Finance (MAJ08440)
- Financial Services (MAJ08068)
- Human Resource Management (MAJ08446)
- International Business (MAJ08442)
- Management (MAJ08438)
- Marketing (MAJ08441)
- Marketing Communication (MAJ08116)

Second major only:

- Business Law (MAJ09401)
- Information Technology (MAJ02041)
- Sport Management (MAJ08445)
- Tourism Management (MAJ08443)

Extended majors
An extended major consists of 72 credit points of study (12 6-credit-point subjects). An extended major in the Bachelor of Business allows students the option of pursuing a highly specialised study in one discipline area while still undertaking a cross-disciplinary year of study. Extended majors are listed below.

Note: Details of the subjects within each extended major are provided in the study package directory.

- Extended Economics (MAJ09402)
- Extended Finance (MAJ08060)
- Extended Management (MAJ08046)
- Extended Marketing (MAJ08063)

Sub-majors
A sub-major consists of 24 credit points of study in a related area. Sub-majors are available to all students except where specified. It should be noted that not all subjects are offered in every semester and that not all sub-major are available at both campuses. Sub-majors are listed below.

Note: Details of the subjects within each sub-major are provided in the study package directory.

- Advanced Advertising (SMJ08131)
- Advertising (SMJ08137)
- Economics (SMJ09028)
- Econometrics (SMJ09058)
- Event Management (SMJ08203)
- Finance (SMJ08123)
- Financial Planning (SMJ08214)
- Financial Reporting (SMJ08116)
- Human Resource Management (SMJ08128)
- International Accounting (SMJ08117)
- International Management (SMJ08129)
- Management (SMJ08130)
- Management Consulting (SMJ08109)
- Management Reporting (SMJ08195)
- Marketing (SMJ08138)
- Marketing Research (SMJ08132)
- Small Business Accounting (SMJ08120)
- Sport Management (SMJ08126)
- Strategic Marketing (SMJ08204)
- Tourism Management (SMJ08127)
Postgraduate course information

UTS: Business offers a range of master’s degrees, graduate diplomas and graduate certificates by coursework. In addition, doctoral programs and research masters (by thesis) programs are also offered. Further information and general inquiries on postgraduate course information is available from the Student Centres (see page 49) at Haymarket and Kuring-gai.

Postgraduate coursework

Exemptions

Exemptions are granted on the basis of the successful completion of equivalent subjects from recent undergraduate or recent postgraduate studies. Students should lodge an application for subject exemption form if they wish to apply for exemptions from subjects within their enrolled course.

Postgraduate subject exemptions are not normally granted where prior studies were undertaken more than 10 years previously. Postgraduate subject exemptions are also not granted for prior sub-degree TAFE studies.

UTS: Business subject exemption forms for postgraduate students are available at:
www.gsb.uts.edu.au/student/rpl
Exemptions from electives are considered only for prior postgraduate studies. Students who have completed a UTS: Business honours degree or equivalent as determined by the head of the UTS Graduate School of Business may be eligible for up to an additional four subjects (to a maximum of 24 credit points) of exemptions where equivalent coursework subjects exist.

The maximum number of subject exemptions allowed in each course under the UTS: Business policy is detailed below.

Graduate certificates

Exemptions are not permitted except where an exemption has been approved for a specified UTS executive development course.

Graduate diplomas

A maximum of five subject exemptions is permitted, of which two core subjects can be approved from prior undergraduate study.

Master's degrees (excluding MBA)

A maximum of eight subject exemptions is permitted, of which four core subjects can be approved from prior undergraduate study.

MBA

A maximum of 10 subject exemptions is permitted, of which four core subjects can be approved from prior undergraduate study. Exemptions will not be permitted for the subjects 21715 Strategic Management and 21878 Studies in Business Communication.

Articulation

While courses are offered as stand-alone qualifications they are also components of integrated programs of study that enable students who satisfactorily complete a graduate certificate or graduate diploma to apply for entry to a higher-level course within their chosen field of study. Where a student articulates from one level of study to another, only one testamur is issued. Further information is available from the Graduate School of Business.

Internal course transfer forms are available at:
www.sau.uts.edu.au/forms

Progression

Postgraduate students will have their enrolment discontinued if they fail:

- three subjects in a graduate diploma
- four subjects in a master’s degree, or
- five subjects in the MBA.

Postgraduate students are advised that there is a maximum time to complete their course requirements (see rule 10.5).

Electives

Postgraduate students are not permitted to undertake undergraduate subjects, including language subjects, as electives in any UTS: Business postgraduate program. Students may only choose and enrol in postgraduate subjects as electives.

Majors and sub-majors

To have a major or sub-major noted on a final transcript, students must complete at least 75 per cent of the subjects in that major at UTS, under any approved postgraduate course.

Semester load

Full-time study is usually undertaken at the normal load of 24 credit points a semester. Students who wish to undertake more than the normal full-time load in one semester must have their study plan endorsed by a student adviser from the Student Centre, Haymarket. Part-time study is usually undertaken at the normal rate of 12 credit points a semester.

Attendance

Postgraduate UTS: Business degrees are offered on campus only, but some subjects are also offered in block mode. The usual attendance for each subject is three hours a week, while subjects offered in block mode usually involve five or six full days of attendance spread over the semester.

Most degrees are offered part time (one or two subjects a semester) or full time (three or four subjects a semester). An extra two subjects (if offered) may be taken in Summer session to fast-track study. Local students may attend part time or full time. International students must enrol in four subjects a semester to meet Department of Immigration and Citizenship requirements.

Subject attendance requirements

Students are required to be punctual and regular in attendance for all classes in which they are enrolled. It is the student’s responsibility to study all material provided, or required to be accessed, to maximise their chance of meeting the objectives of the subject and to be informed of subject-related activities and administration. International students in Australia are advised to attend all classes at their campus. Failure to attend may infringe on the conditions of the student visa.

Information on the campus, day and time that individual subjects are offered is available from the UTS timetable at:
http://timetable.uts.edu.au

Forms

Most postgraduate forms are available at:
www.sau.uts.edu.au/forms
Credit recognition (exemption) and graduation forms, which are faculty-specific, are available at:
www.gsb.uts.edu.au/student/rpl
Postgraduate research

Admission requirements

To be eligible for admission to the UTS Business School’s Doctor of Philosophy program an applicant should:

• hold a relevant bachelor’s degree with first or second class honours (division 1)
• hold a master’s (by thesis) degree
• possess an equivalent qualification, or
• be a graduate of at least two years’ standing of this University or another tertiary institution, whose research publications and written reports on work satisfy the Academic Board that the applicant has the ability and experience to pursue their proposed course of study.

Each applicant is required, prior to application, to contact the UTS Business School research office with a thesis area or topic and seek appropriate supervision. Applicants are also required to submit a brief thesis proposal with their application.

Course structure

Based on the candidate’s proposed area of research the University allocates a supervisory panel with expertise in this area.

While candidates with an insufficient background in research methods and/or theoretical knowledge in the core fields of study may be required to do some coursework, the final assessment for the degree is based on submission of a thesis of approximately 50,000–70,000 words. The thesis is examined by three examiners, of who at least two are external to the University, and are experts in the area of research addressed in the thesis. Guidelines for presentation and submission of the thesis are available from the UTS: Graduate Research School.

Both the candidate and the candidate’s principal supervisor are required to submit progress reports at the end of each semester. In addition, a student’s candidature is assessed before or at the end of the first two semesters of candidature in the case of a full-time student, or the first three semesters in the case of a part-time student. The following components, considered by a review panel, constitute the assessment: satisfactory semester progress reports, successful completion of prescribed coursework prior to the assessment, a written thesis proposal, and an oral seminar on the research topic and written proposal.

A student who does not satisfy the requirements for the assessment is not permitted to proceed with their candidature unless, with the approval of the Academic Board, the student is invited to re-attempt the assessment.

Contacts and inquiries

UTS Business School Research Office

telephone +61 2 9514 3691
fax +61 2 9514 3513
email research.business@uts.edu.au
www.business.uts.edu.au

UTS: COMMUNICATION

Information for students

UTS: Communication offers degrees by coursework and degrees by research — these two study areas have separate information and administration services available to students.

The UTS Student Centre provides student administration services to coursework students. It coordinates a wide range of activities including enrolment, identification of potential graduands, processing of student leave applications, special consideration applications and variation of programs via e-requests.

The research degrees administrator provides similar assistance to postgraduate research students.

Location, contacts and inquiries

UTS Student Centre

CB10.1 (foyer, Building 1)
City campus
15 Broadway
Ultimo NSW 2007

telephone 1300 ask UTS (1300 275 887) and +61 2 9514 2300
Ask UTS www.ask.uts.edu.au
www.communication.uts.edu.au

Research Degrees Administrator

CB10.5.340
City campus
Broadway NSW 2007

telephone +61 2 9514 4512
email hss.researchdegrees@uts.edu.au
www.communication.uts.edu.au/research

Statement on scholarly work and its presentation

Scholarly work involves working with texts by authors in different fields. These authors have intellectual property rights to their work, so in the scholarly process of quotation, commentary, paraphrase and interpretation, specific rules or protocols must be observed. These apply to audiovisual texts as well as to writing.

In the production of work by students in UTS: Communication, the protocol to be observed is the acknowledgment of the work of other authors, whether this work takes the form of an idea, a section of text, sounds or images. Unacknowledged copying, paraphrasing or summarising can be considered plagiarism if it is ‘passed off as one’s own’ (The Macquarie Dictionary, 2009). Work involving plagiarism is not accepted for assessment and may be the subject of disciplinary action.

Conventions for acknowledgment are well established but take different forms. It is the responsibility of students to familiarise themselves with these conventions and to use them. Snooks and Co., Style Manual for Authors, Editors and Printers, 6th edn (revised), Wiley, 2002, is useful.

Other sites that outline issues in using information appropriately can be found at: www.lib.uts.edu.au/help/study-skills

International exchange and study abroad

Local students

Students at UTS can study overseas as part of their degree through either the international exchange program or by study abroad.

Students accepted into the international exchange program can study at an institution with which UTS has a student exchange agreement or memorandum of understanding and the student pays through HECS-HELP.

Further information about the international exchange program is available at: www.uts.edu.au/international/exchange/going/apply

Students undertaking study abroad at an overseas institution enrol at that university and pay full fees to that institution.

International students

UTS: Communication welcomes students from around the world. Our courses reflect Australia’s multicultural character and its cultural, commercial, media and technological links to other countries and communities. UTS is committed to the internationalisation of all its courses, which prepare students for fulfilling lives and productive careers in a globalised world. A number of staff in UTS:
Communication have lived and studied overseas and maintain international connections in the arts, media, business and research. UTS: International provides information and assistance for prospective international students. Further details are available at: www.uts.edu.au/international

Exchange and study abroad
Students who are already enrolled in an overseas university course and who wish to study in Australia for one or two semesters can enrol in subjects through international exchange or study abroad arrangements. Exchange students come from institutions with which UTS has a student exchange agreement and pay fees through their home institution. Study abroad students apply directly and pay fees to UTS as their university does not have a formal exchange agreement.

Subject selection
Undergraduate students can apply to enrol in subjects listed in the individual undergraduate programs. Note that access to subjects in media arts and production is restricted to students who have already completed introductory subjects in these areas at their home institution.

Postgraduate students can select from the range of subjects listed in individual postgraduate programs. Students must meet the subject prerequisite requirements indicated in the subject descriptions. Students are also advised to ensure that the subjects they select satisfy course requirements at their home institution.

Undergraduate and postgraduate courses
International students can apply for any of the full-time courses offered by UTS: Communication that appear in this handbook.

Short courses and continuing professional education (CPE)
UTS: Communication regularly offers in-house short courses, seminars, workshops, organisational training and other professional development programs.

Short course programs are available in:

- advertising (UTS/AFA AdSchool)
- journalism and writing (Australian Centre for Independent Journalism)
- creative writing (UTS Centre for New Writing)
- pro tools sound design (UTS Pro School), and
- media presentation skills (Australian Centre for Public Communication).

New programs are constantly in development. Further information is available from:

www.communication.uts.edu.au/courses/short.html

Undergraduate course information
Applications
All non-current school leavers are selected through an assessment of academic merit. Applicants with five or more years of work experience or equivalent and limited educational qualifications may be requested to provide a personal statement. For further information see UTS: Communication selection criteria at:

www.undergraduate.uts.edu.au/apply

Areas of study
The undergraduate program is based on a subject bank of about 70 subjects designed for undergraduate students seeking both a general and professionally focused university education.

Courses are offered in the following areas:

- information and media
- journalism
- media arts and production
- public communication
- social inquiry
- writing and cultural studies

Course structure
Students must complete 144 credit points consisting of 48 credit points of core subjects, a 48-credit-point major, a 24-credit-point sub-major, and 24 credit points of electives.

- core: a set of communication subjects running vertically through three years
- major: a set of specialist subjects belonging to the area of study and running vertically through three years
- sub-major: a study sequence of three subjects that relate to a particular field of study
- electives: a choice of subjects from UTS: Communication or from subjects offered by other course areas.

All UTS: Communication courses can be combined with international studies or law.

Students who excel in their degree have the option of studying the Bachelor of Arts (Honours) after three years.

Core subjects
UTS: Communication core subjects (STM90550) are designed to give students the essential skills and knowledge required by every communication graduate.

Through the core subjects, students examine the foundations of communication and develop their professional practice or craft through new technologies as well as existing traditional mediums. Each core subject engages students in critical examinations and reflections of key communication concepts, preparing them to work with a real-world client in their capstone subject.

Majors
Each major integrates theory and practice and is designed to provide the specialist skills and knowledge required by an entrant to a particular industry or creative practice. Major subjects maintain a critical focus on industry while allowing students to develop the well-rounded expertise needed by practitioners in the next decade.

The first three subjects in a major lay the foundation for understanding and working within a particular field. The last three subjects challenge students to develop the confidence and expertise employers demand.

There are six majors offered by UTS: Communication (CBK90700):

- Information and Media (MAJ10023): This interdisciplinary major prepares students for work in a variety of creative information design and management roles. Students develop an understanding of the interrelationships between people, information and communication technologies, as well as practical skills in areas such as web design and architecture, media research and writing information and media content for diverse audiences. Students create a portfolio of products including blogs, podcasts, websites, databases as well as audience and user analyses.
- Journalism (MAJ10020): This major is designed to meet the essential practical skills and theoretical knowledge needed for a career in journalism. Students gain an understanding of the crucial role that journalists play in creating a democratic public sphere, providing a forum for debate and giving voice to diverse communities. This major equips students with advanced research, writing, reporting and analytical skills for print, television, radio and online media; and knowledge of the intellectual, ethical and political foundations of journalism.
- Media Arts and Production (MAJ10021): Highly regarded in the industry, this major has a history of award-winning students and graduates. Students develop production skills in video, sound and new media, and enhance their creative innovation in these areas. Students are encouraged to evolve as creative directors and producers of media projects, as well as develop their technical proficiency specifically in one media area. By the time students graduate, they should have a professional portfolio of creative production work.
- Public Communication (MAJ10024): This major has a focus on professional communication careers including public relations and advertising. Students explore the communication contexts for these practices — cultural, social and political. Students develop their professional skills in campaign design and production, copywriting, media liaison and writing, research and evaluation, sponsorship and event management. Students have the option of completing a Public Relations stream (STM90716) or an Advertising stream (STM90715) in this major. Assignments provide material for a portfolio when they graduate.
• Social Inquiry (MAJ09395): Flexible, rigorous and professionally focused, this major is for students interested in social issues and developing the skills to participate effectively in social change. Students explore cross-cultural, international and local perspectives affecting society, and gain a broad range of skills and knowledge that prepares them for a variety of professions in the diverse fields of social science, media and communication.

• Writing and Cultural Studies (MAJ10022): In this major students study both general and specific creative writing as a professional practice that influences and is influenced by culture. Students study the theory and practice of writing and apply their skills across a range of genres and different media. Students explore the position and role of the writer in society, while learning to think critically and creatively about developments in the cultural industries. Students also gain the skills to assess and evaluate the needs of diverse communities, and develop strategies for responding to social and cultural issues.

Sub-majors
A sub-major is a study sequence of three subjects that relate to a particular field of study. Sub-majors allows students to develop expertise in exciting new directions, broadening their knowledge and enriching the sophistication of their work. Each sub-major builds on a major by inspiring students to new heights of thinking while challenging them to deal with major issues affecting society and the professions they plan to enter. There are seven sub-major study sequences available (CBK00701):

• Aboriginal Studies (SMJ09052)
• Bodies, Genders, Rights (SMJ09051)
• Environmental Studies (SMJ09050)
• Media Studies (SMJ10032)
• Reading Australia (SMJ09049)
• Screen Studies (SMJ10033)
• Transnational Studies (SMJ09048).

Electives
Elective subjects allow students to broaden or specialise their knowledge and skill set.

In the 24 credit points of electives, students can choose:
• any three subjects from the UTS: Communication subject bank
• three foundation subjects of another UTS: Communication major
• a second UTS: Communication sub-major
• Language and Culture subjects, or
• subjects from another course area of UTS, such as UTS: Business or UTS: Design, Architecture and Building.

Students may wish to undertake the Professional Internship elective in which they negotiate a learning contract and develop a structured industry experience project to enhance their career prospects. Prerequisites must be observed when selecting electives.

Postgraduate course information
Applications
Applicants need to lodge an application through the Universities Admissions Centre (UAC) or make a direct application at the UTS: Communication Postgraduate Information Evening. For most courses, applicants can be made an offer if they possess a bachelor's degree, a master's degree or a graduate diploma in any field of study, or a graduate certificate in the same field of study. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements. Additional documentation is required for the Master of Arts in Creative Writing (C04109) (see page 324) and Master of Arts in Non-fiction Writing (C04244) (see page 367). Further information is available at: www.postgraduate.uts.edu.au/applying

Postgraduate coursework
UTS: Communication offers graduate coursework programs in:
• information and knowledge management
• international studies
• journalism
• media arts and production
• public communication, and
• writing.

Within each program, courses may be offered at the level of graduate certificate, graduate diploma or master’s degree.

Most programs are articulated so that students can progress through the program at their own pace and more effectively meet their individual study and development needs. This also allows students to enter the program at a point appropriate to their qualifications and experience.

The graduate programs are normally structured as follows:
• master’s degrees: 72 credit points
• graduate diplomas: 48 credit points
• graduate certificates: 24 credit points.

Students who successfully complete the graduate certificate or graduate diploma and who are admitted to a more advanced-level course in the program are eligible for recognition of prior learning in the more advanced course for completed subjects.

The graduate program generally consists of subjects from 200 to 500 level, with a master’s degree requiring some subjects at 500 level. All graduate courses are fee-paying courses.

Semester load
Full-time study is usually undertaken at the normal load of 24 credit points a semester.

Part-time study is usually undertaken at the normal rate of 8 or 16 credit points a semester.

Subject availability
Subjects in the graduate programs are normally offered every semester or every year. Classes proceed in a given semester only when there is sufficient demand. UTS: Communication reserves the right to cancel a class or a subject if it is not viable.

Electives
Where course requirements allow a free choice of electives, students may select subjects from graduate programs in UTS: Communication or subjects from other course areas in the University. Students may select subjects beyond the lists of elective subjects for particular courses with the approval of the graduate adviser. Not all subjects are available every semester.

Progression rules
Postgraduate students are advised that they may be excluded from a course if they exceed the maximum time allowed for completion of that course (section 10.5 of the University Rules).

Postgraduate research
UTS: Communication’s research office prepares an information booklet, Applying for a Research Degree, which contains the selection criteria and details of supplementary information required by the faculty from course applicants.

The booklet is available from the research degrees administrator: www.fass.uts.edu.au/postgraduate/research/apply

Application forms are available from the UTS: Graduate Research School or at: www.research.uts.edu.au/future-students/apply.html

Applicants should contact one of the faculty’s research strength directors and potential supervisors to discuss their proposed research project prior to submitting their application.

The deadline for applications for all applicants wanting to commence the following March is the final working day in October. In the event of a mid-year intake, the deadline is the last week in May.

Supervision
UTS: Communication has the capacity to supervise theses in the fields of:
• cultural studies
• digital media and the social sciences
• information studies
• journalism
• media arts
• new media and cultural theory
• public communication
• public history
• public media
• social activism
• writing.

Within these broad fields there are specific areas of supervision capacity, which change slightly each year.
UTS: Communication research centres and strengths

Cosmopolitan Civil Societies

The Cosmopolitan Civil Societies Research Centre (CCS) aims to develop a better understanding of social change and cultural cohesion in Australia and other cosmopolitan societies. The centre's research interest is at the intersection of conflict and cohesion, and in how division can be transformed into dialogue, recognition and inclusion. Its research programs focus on social action, community capacity, migration and cultural diversity, and aims to inform policy-making for social and cultural sustainability.

The CCS research initiative draws on the expertise of the University's teaching and research staff in the areas of management, education, communication, cultural studies, social change, social inquiry, leisure, sport and tourism, international studies, urban sociology, sustainability, community studies, finance and economics, built environment, engineering, globalisation and law.

Research areas include:
- collective action and learning
- human rights and social justice
- migration, cultural diversity and racism
- strengthening civil societies.

Students research areas are:
- community capacity building
- migration, cultural diversity and cosmopolitan civil societies
- non-profit and community organisations
- social action.

Transforming Cultures

After 10 years, Transforming Cultures (TfC) is well established internationally in both scope and reputation. It focuses on interdisciplinary cultural and social research, sponsoring innovative projects with local impact in Australia and the Asia-Pacific and Indian Ocean regions. Projects include an examination of 'cultures of place', cultural citizenship, experimental history and the culture of memory, and international activism. The centre also seeks to develop and report accounts of change and intervention in a globalising world. One current major focus is India, a new economic powerhouse in the region.

The Transforming Cultures research centre explores cultures in the process of transformation as well as the (technological and other) cultures that are transforming societies across the globe. TfC researchers interrogate the social and cultural technologies that are transforming individuals, cultures and the societies of which they are part and on which they act. These include technologies of the body, of communication and of transculturation.

Project areas are:
- cultural frictions (convenor: Devleena Ghosh)
- environment, political ecologies and spatial cultures (convenor: Heather Goodall)
- experience-based inquiry (convenor: Catherine Robinson)
- experimental histories and cultures of memory (convenor: Katrina Schlunke)
- oceans and borders (convenor: Devleena Ghosh)
- transforming communications (contact: Tanja Dreher).

TfC researchers are drawn from across the humanities and social sciences, including anthropology, communication studies, cultural studies, gender studies, history, international studies, philosophy and sociology.

Student research areas are:
- social frictions and cultural citizenship (convenor: Andrew Jakubowicz)
- experimental histories and cultures of memory (convenor: Dr Katrina Schlunke)
- environment, political ecologies and spatial cultures (convenor: Heather Goodall)
- transnational studies (convenor: Devleena Ghosh)
- transforming communications (convenor: Penny O'Donnell)
- experience-based inquiry (convenor: Catherine Robinson).

Creative Practices and Cultural Economy

The Centre for Creative Practices and Cultural Economy (CPCE) provides a unique framework for the investigation of creative practice within a cultural economy context. It merges creative practice with cross-disciplinary areas such as public history, information technology, cultural analysis and economics. In doing so, the centre brings new understanding to the creative industries concept. It explores a range of perspectives on the process of creativity from inception to production, in order to determine how meaning is made in contemporary society across a range of cultural forms.

The centre’s core investigations are the key issues of cultural and economic values, their nature, their purpose and, most importantly, their intersection with each other and with creative practice.

The CPCE provides fresh perspectives by understanding cultural economy as a closely interwoven fabric of cultural and economic creative practices that represent a whole systems approach in the determination of value. This entails not only the tangible qualities that emerge through process and production, but the intangible processes of individual values, sense of place, identity and passion that are captured within all creative works.

Research hubs are:
- building creative societies
- creative media
- cultural heritage and tourism
- media and communication practices
- wine and food
- writing and literary cultures.

The CPCE has a significant body of research students, which enriches the research strength's creative culture. Members supervise a range of traditional and non-traditional master's and doctoral degrees, and their areas of expertise include:
- new media
- fiction
- non-fiction
- screenwriting
- public history
- history and memory
- media arts
- multimodality
- film and video
- documentary
- sound and music.
UTS: DESIGN, ARCHITECTURE AND BUILDING

Information for students
UTS: Design, Architecture and Building is located on City campus, Broadway, in the Peter Johnson Building (Building 6) on Harris Street. The Building 6 Student Centre provides information and assistance to coursework students who have inquiries and concerns about student and course administration. The student centre coordinates a wide range of activities including enrolment, production and distribution of class timetables, identification of potential graduands, the processing of student leave applications, special consideration and variation of programs. The centre also assists with interpretation of University rules and regulations, and provides various forms for students. The research degrees administrator provides similar assistance to postgraduate research students.

Location, contacts and inquiries
The Building 6 Student Centre is located on level 4 of the Peter Johnson Building (Building 6). It is responsible for a broad range of activities including admission, enrolment, graduation, timetabling, course information and promotion, and student progression matters.

Building 6 Student Centre
CB06.4.05
702–730 Harris St, Ultimo
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
Hours: 9am–5pm Monday to Friday (except Wednesday); 12pm–5pm Wednesday
These hours are extended during the first weeks of each semester.

Postal address
Faculty of Design, Architecture and Building
PO Box 123
Broadway NSW 2007

Faculty structure
The Faculty of Design, Architecture and Building administers UTS: Design, Architecture and Building courses. The faculty consists of three schools that manage both undergraduate and postgraduate coursework degrees: the School of Design; the School of Architecture; and the School of the Built Environment.

UTS: Design, Architecture and Building has a research culture that respects distinct intellectual areas while encouraging internal and external research partnerships.

Teaching strategies
UTS: Design, Architecture and Building is committed to the creation of a learning environment where:
• students are motivated to want to learn
• students learn both in groups and independently
• students learn using a combination of theoretical and practical applications
• students adopt a scholarly approach to their studies
• students emulate practice
• students engage with the community
• students learn from feedback on exams, assignments and general performance, and
• research and writing skills are promoted.
Students learn from highly accomplished and motivated staff, student readers, workbooks and texts where appropriate.

Facilities
UTS: Design, Architecture and Building has state-of-the-art facilities including:
• a digital architecture studio and lab exclusively for Master of Advanced Architecture students
• an interactivity studio to research the interaction between people and technology
• the creative image laboratory used for teaching, workshops and general access for third- and fourth-year visual communications students
• fashion workshops and studios created for the design and construction of garments
• a moving image production video studio
• a fabrication workshop for metalworking, woodworking, general use, plastics, welding, spray painting, materials storage, tool storage and a 3D printer
• a photography studio for small, medium and large formats; black and white, and colour film processing and printing; lighting; backdrops; and darkrooms
• state-of-the-art computing lab, featuring a render farm and 21 dual-processor G5 Macs (these facilities are comprehensively upgraded every three years)
• the textile print workshop, which consists of a dye lab, a print area with two large print tables, transfer press and heat setter, a screen exposure room, a screen wash area and a drying area, and a coating area
• a digital workshop that holds 3D printers, a laser cutter and a 3D scanner
• a motion capture laboratory that has a Vicon optical system to capture human movement by a series of cameras and then encoded as digital data — these data allow animators to produce characters with life-like movement — and a 3D scanner
• DAB lab research gallery, which provides managerial assistance for academic staff and postgraduate student case studies and research projects
• UTS Gallery, which is a dedicated public gallery, presenting a rich and varied program of high quality exhibitions, educational activities and special events that make a significant contribution to the cultural life of UTS and the wider community of Sydney.

Centres
UTS: Design, Architecture and Building is home to several research centres (see page 59).

International exchange
Being an exchange student provides the opportunity to study and travel overseas, to experience and learn from the perspectives of other cultures, and to develop alternative ways of thinking and a new approach to learning.

UTS: Design, Architecture and Building has exchange agreements with the following universities:
• Hong Kong Polytechnic University
• Kyushu Institute of Design (Japan)
• Fachhochschule Vorarlberg GmbH (Austria)
• Fachhochschule Hannover; Fachhochschule Wiesbaden (Germany)
• Central Saint Martins College of Art and Design, London; Mackintosh School of Architecture; University of Brighton (UK)
• Ryerson Polytechnic University (Canada).

Cross-faculty courses
The Master of Animation (C04212) (see page 339) is a cross-faculty course incorporating the teaching strengths of the Faculty of Design, Architecture and Building; the Faculty of Arts and Social Sciences; and the Faculty of Engineering and Information Technology. The Bachelor of Photography and Situated Media (C10265) (see page 280) shares subjects with the Faculty of Arts and Social Sciences’s Bachelor of Sound and Music Design (C10269) (see page 281).
Undergraduate course information

Undergraduate study in UTS: Design, Architecture and Building is unique. UTS: Design, Architecture and Building provides specialist design education focusing on the areas of fashion and textiles design, industrial design, interior design, visual communication and photography, and situated media design. The architecture program offers disciplinary and professional education, and the construction project management and property economics courses equip students to work in professional roles in their chosen industry.

School of Design

The Bachelor of Design offers six distinct professional areas of specialisation:

- Bachelor of Design in Animation (C10273) (see page 286)
- Bachelor of Design in Fashion and Textiles (C10306) (see page 295)
- Bachelor of Design in Integrated Product Design (C10304) (see page 295)
- Bachelor of Design in Interior and Spatial Design (C10271) (see page 284)
- Bachelor of Design in Photography and Situated Media (C10265) (see page 280)
- Bachelor of Design in Visual Communication (C10308) (see page 297).

Design students are required to undertake a professional core program specific to each individual course, as well as elective studies. The six areas also share a number of subjects within the design studies strand.

Design studies subjects

Design students are required to undertake 30 credit points of design studies subjects. Each subject is worth 6 credit points and is one semester in duration. These subjects examine what is common to the different forms of design and the interface between design and other disciplines and professions. The subjects develop creative thinking within a critical framework and foster openness to difference and alternative futures while establishing criteria for judgment about the value of design proposals. The subjects also enhance students’ abilities to work collaboratively and reflect individually. Through these subjects, students acquire an understanding of, and skills in, a range of aspects of design research:

- research for design — investigating the cultural contexts of design problems and solutions
- research of design — reflecting upon and explaining the nature of creative design processes
- research by design — exploring and articulating what can be discovered about situations through designed interventions.

Not all subjects are offered every semester. Contact the Building 6 Student Centre for details.

Elective stream

Students are required to undertake 24 credit points of elective subjects. This may be in the form of a sub-major (24 credit points in a single specialist area) or chosen from a variety of electives offered by the different faculties in the University.

Overseas exchange

The design programs offer students the opportunity to undertake concurrent study at approved institutions overseas. UTS: Design, Architecture and Building has memorandum of understandings with institutions in Canada, Germany, Japan, Korea and the United Kingdom.

School of Architecture

The architecture program includes the Bachelor of Design in Architecture (C10004) (see page 125) (leading onto the Master of Architecture (C04235) (see page 353)).

UTS architecture courses provide students with the skills and knowledge necessary to practise in the architectural profession and to be future leaders in the design of the built environment. Students receive a rich education oriented towards international practice and design innovation, and gain a critical and ethical awareness of architecture as a discipline with much to offer in the face of many of the most pressing challenges of today: environmental and social sustainability, urban sprawl and amenity, cultural preservation and the livelihoods. Each community. Graduates are highly skilled and sought after by the profession. The course is recognised both nationally and internationally.

The architecture program at UTS offers disciplinary and professional education through two distinct but consecutive and strongly interconnected degree courses.

The first comprises a Bachelor of Design in Architecture (BDes) (C10004) (see page 125), awarded after successful completion of three years of full-time study (or part-time equivalent). The second comprises a Master of Architecture (MArch) (C04235) (see page 353), which involves a further two years of full-time study (or part-time equivalent).

In general terms, the BDes can be seen as a liberal introduction to the study of architecture as a discipline. This degree can stand alone and equips students to join other design fields or related disciplines, or to go on to further academic research and study. It also plays an important role in preparing students for the MArch degree. In this second degree the emphasis lies on educating students for the practise of architecture. Together, the two degrees acknowledge the nature of architecture as both a discipline and a profession. Further information on the MArch degree is available from postgraduate course information (see page 39).

School of the Built Environment

The school offers two undergraduate courses:

- Bachelor of Construction Project Management (C10214) (see page 223)
- Bachelor of Property Economics (C10007) (see page 126).

The Bachelor of Construction Project Management (C10214) (see page 223) is concerned with the management of all aspects of the construction process and provides a high quality education for both construction managers and quantity surveyors.

It delivers all the recognised competencies for construction professionals and gives graduates the opportunity to diversify into project management. This unique degree provides graduates with the broader skills and knowledge required to meet the changing demands of the construction industry.

The course offers a first-rate building education and gives students opportunities such as industrial placements, field trips, practical and lab-based work, and international exchange programs. Students have access to state-of-the-art computing facilities. Every stage of the course includes a practical component and there is a substantial professional work experience program.

The Bachelor of Property Economics (C10007) (see page 126) produces highly skilled property professionals and is fully recognised by Australian employers, governments and professional associations. Property is valued as a fundamental economic asset that affects the security and wealth of the owner. Success in this industry requires an understanding of the principles of valuation, legalities and ethics, economics, finance, accounting and management.

UTS: Design, Architecture and Building provides a broad-based applied property degree course that includes the important component of practical experience — full-time students complete their degree on a part-time basis for the final two years, ensuring all students have industry experience upon graduation.

Postgraduate course information

Postgraduate study in UTS: Design, Architecture and Building is sophisticated and contemporary. UTS: Design, Architecture and Building’s design and digital architecture courses give students the chance to extend their abilities, developing both their broader and specific knowledge base to realise their potential as innovative designers. The property, planning and project management courses are renowned for their diverse, innovative and practical application, and flexible delivery options. UTS: Design, Architecture and Building offers Australia’s only Master of Animation (C04212) (see page 339) and Master of Advanced Architecture (C04240) (see page 359).

UTS: Design, Architecture and Building has a cutting edge research culture, committed to developing knowledge, innovation and excellence. Research strengths have a national and international profile.
Postgraduate coursework

School of Design

Two postgraduate coursework degrees are offered by the School of Design:

- Master of Animation (C04212) (see page 339)
- Master of Design (C04243) (see page 366).

The Master of Animation (C04212) (see page 339) is the only qualification, at this level, devoted to animation in Australia. Coursework areas include traditional film animation, 2D and 3D digital animation, graphic visualisation, object-oriented programming and animation studies, culminating in the production of a short animated work.

Unique in Australia, the Master of Design (C04243) (see page 366) is intellectually vibrant, socially engaging, visionary, practice-focused and actively linked to industry. This course is centred around building a design community network. It provides a postgraduate education that is flexible in both its practice orientation and research integration. With a focus on design evolution, innovative integration of new technologies, practice and student experimentation, the Master of Design is delivered by experienced studio leaders who are acknowledged leaders in the specific industries and professions.

School of Architecture

Four postgraduate coursework degrees are offered by the School of Architecture:

- Master of Advanced Architecture (C04240) (see page 359)
- Master of Architecture (C04235) (see page 353)
- Graduate Diploma in Architecture (C07115) (see page 417).
- Graduate Certificate in Architecture (C11212) (see page 459)

The Master of Advanced Architecture (MAdvArch) (C04240) (see page 359) offers two distinct streams. The MAdvArch in Design Technologies is a design-based, post-professional coursework program that critically explores current advances in design production and thinking to postulate new forms of urbanism and architectural space. The MAdvArch in Urban Design focuses on research, technology and experimentation that is directed towards the spatial transformation of urban environments. It is available not only to architects, but all designers of the built environment.

The Graduate Diploma in Architecture (C07115) (see page 417) and the Graduate Certificate in Architecture (C11212) (see page 459) are tailored pathway courses into the Master of Advanced Architecture (C04240) (see page 359) only.

The Master of Architecture (C04235) (see page 353) is the second of a two-tiered degree structure and is the degree required for registration as an architect. The emphasis of this degree lies in educating students for the practise of architecture. The Master of Architecture is a professional degree, i.e. a qualification accepted for candidates seeking to take the professional examination of the Board of Architects and Australian Institute of Architects as a prerequisite to registration under the provision of the Architects Act 2003. The Master of Architecture may be undertaken only after the successful completion of the Bachelor of Design in Architecture (C10004) (see page 125) degree (or equivalent); a degree that by itself does not lead to professional recognition.

School of the Built Environment

This school offers postgraduate programs in project management, property development and planning. In particular, the project management courses are generically designed so the skills learned can be applied to a wide range of business fields and industry.

The planning program enhances knowledge and skills in urban analysis, policy and the use of emerging technologies. It has a strong emphasis on master planning, sustainability and urban design, equipping its graduates so they can respond to changing natural, economic and social environments. The engaged, practical nature of the course prepares graduates for leadership roles in government departments and agencies, major development companies and private consulting firms.

The property development program provides a thorough and advanced grounding in all aspects of the property development process, markets and institutions, including the political, managerial, legal and physical systems which contribute to the effective management and development of property assets, property investment portfolios and development proposals.
UTS: EDUCATION

Information for students
UTS: Education caters for a broad range of educational practitioners’ professional development needs, from primary through to adult workplace teaching and learning. Undergraduate and postgraduate courses in teacher education and postgraduate courses in adult education provide a rich program combining theory and practice with unique opportunities to discover more about learning in a variety of contexts – in schools, vocational colleges, corporations and learning centres in Australia and overseas. UTS: Education is located on City campus and Kuring-gai campus.

Credit recognition policy
UTS: Education recognises both formal and informal prior learning. For more information consult the policy on credit recognition at: www.education.uts.edu.au/students/admin/credit.html

Student support
UTS: Education helps students develop their learning skills through services provided by the following support units.

Academic liaison officers
As part of UTS: Education’s equity plan, an academic liaison officer is available at each campus to help students with physical, psychiatric and medical issues and other special needs. The liaison officers negotiate with lecturers on students’ behalf for any reasonable adjustments required to ensure equity of educational opportunity. This may include provision of signers, notetakers, extensions of time, alternative assessment tasks and special exam conditions.

Kate Collier
City campus
telephone +61 2 9514 3461
e-mail Katharine.Collier@uts.edu.au

Robyn Staveley
Kuring-gai campus
telephone +61 2 9514 5381
e-mail Robyn.Staveley@uts.edu.au

Computing facilities for UTS: Education students

City campus
At Building 10 (CB10) on City campus, UTS: Education has a digital media learning space. This facility incorporates leading-edge concepts in educational design and technology. The computer facility provides powerful Macintosh computers with a suite of common up-to-date software installed for document production, web authoring, video and image editing, internet and email access. They are compatible with a range of foreign language fonts. Printing and scanning facilities are also available for students. UTS: Education students have access to these facilities when classes are not in progress. Presentations in Building 10 teaching spaces may be complemented by data projectors linked to electronic lecterns. These integrate an internet-connected computer, DVD player, VHS player, document imager and sound system for media rich learning experiences. A number of mini-studios with camera, lighting and playback facilities allow students to videotape and review presentations. Building 10 also contains a general access computing laboratory and a computer kiosk on the street level. These are available to enrolled students 14 hours a day.

Kuring-gai campus
There are five computer laboratories for students’ use at Kuring-gai campus. Four of these have Windows-based computers installed and offer an excellent range of software. The largest lab is the Macintosh lab where many of the courses are conducted. This lab contains 30 new networked multimedia computers, a laser printer and a scanner. Students have free access to this lab and a large range of software when classes are not in progress. There is also a collection of educational software and a digital art facility. Students have access to the internet and their own email account from all the computers in the laboratories.

International links
UTS: Education has a history of strong international links and has offered programs in Laos, Cambodia, Hong Kong, Vietnam, Thailand, Japan, the South Pacific region, Europe, the Middle East and South Africa. UTS: Education has seen increasing numbers of international students from Japan, China, South Korea and from countries in Africa and the Middle East. The most popular courses with international students are in teaching English to speakers of other languages (TESOL), a language major in secondary teaching, e-learning, and individual subjects done in study abroad programs.

In the teacher education courses students have the opportunity to do overseas practicums in Thailand, Samoa and China. The Bachelor of Arts: International Studies is also available as a combined degree with UTS: Education undergraduate degrees and offers students the opportunity to live and study overseas in a country of choice for two semesters.

Teacher education
UTS: Education offers pre-service teacher education courses at Kuring-gai campus for beginning teachers in primary and secondary education.

Primary education is offered in a full-length Bachelor of Education degree, which may be taken as a four-year Bachelor of Education in Primary Education (C10206) (see page 219) or as a five-year combined Bachelor of Education Bachelor of Arts in International Studies (C10208) (see page 221). Both courses provide a fully recognised teaching qualification in primary education. There is also a non-teaching qualification exit option, the Bachelor of Arts in Educational Studies (C10209) (see page 223), for students who complete three years of study.

Secondary education is offered as a graduate-entry program, the Bachelor of Teaching in Secondary Education (C08002) (see page 468) for students with an undergraduate degree in an area of specialisation. It is available in the following specialised areas: English; languages; mathematics; personal development, health and physical education; science; visual arts; English/history; mathematics/science; mathematics/computer studies; and business studies/economics/commerce.

Other postgraduate courses are designed for qualified and experienced teachers who wish to extend their professional skills. These include master’s courses in e-learning, TESOL, education and applied linguistics. People considering teaching as a career should be aware that teachers need:

- high levels of competence in literacy and numeracy
- high levels of competence, or the willingness to achieve competence, in information and communication technologies, and
- a fundamental interest in learning.

Initial teacher education courses
The initial primary teacher education courses available are:

- Bachelor of Education in Primary Education (C10206) (see page 219)
- Bachelor of Education Bachelor of Arts in International Studies (C10208) (see page 221), during which students prepare for primary school teaching and acquire knowledge and understanding of another language and culture.

These are interlinked courses designed to prepare students for teaching in primary schools. The two courses share a common core of professional experience, key learning areas and contextual studies. This common structure enables students to change courses at the end of their first year, subject to places being available.

In addition, the Bachelor of Education in Primary Education allows students to study a choice of electives. Meritorious students can instead choose to complete an honours program. In the Bachelor of Education Bachelor of Arts in International Studies, students undertake a country major choice instead of electives or honours.

Professional Experience
Professional Experience contains two interlinked elements:

- campus-based studies that examine the range of theoretical issues, skills and procedures central to effective pedagogical practice, and
- field experiences where students engage in a variety of professional interactions in schools and other educational settings.

These combined elements foster the development of professional knowledge, skills and attitudes with which teachers should begin their careers. Students may apply to undertake field experience in an existing international professional experience program in Thailand, China or Samoa.
Through its provision of developmentally sequenced and integrated campus- and field-based experience, the Professional Experience stream promotes learning about teaching, learning about self, learning about school life and learning about teaching.

UTS: Education rules specify that failing a professional experience subject for the first time places the student on probation and failing the same teaching practicum for the second time leads to exclusion.

All students participating in the internships that require them to supervise students without the presence of a qualified teacher are subject to a criminal records check by the NSW Department of Education and Training. The department, on the basis of the criminal records check, reserves the right to reject or suspend the participation of any student in such programs. It is expected that such security checks also apply to schools other than NSW departmental schools. Criminal records checks are carried out only with the student’s consent. All students are requested to complete a form that authorises a criminal records check to be undertaken. Any refusal to undergo the check results in the student being unable to complete the course requirements.

Full details are provided in general information (see page 25).

Key Learning Areas
The subjects in this stream fall into the following curriculum areas:

- English education
- Information technology education
- Mathematics education
- Music education
- Personal development, health and physical education
- Science and technology education
- Social and environmental education
- Visual arts education.

Contextual Studies
Subjects within the Contextual Studies stream encourage students to draw on perspectives gained from all components of their degree, so that in the latter part they can refine and articulate their personal theories of learning and justify them with reference to research evidence from classroom practice and theoretical insights.

Bachelor of Arts in Educational Studies
Students who were originally admitted into the Bachelor of Teaching in Secondary Education, Bachelor of Education in Primary Education or Bachelor of Education Bachelor of Arts in International Studies have the opportunity of changing to a three-year degree: the Bachelor of Arts in Educational Studies (C10209) (see page 223) (subject to the approval of the course coordinator). This degree does not provide qualifications to teach.

For further details contact:
telephone 1300 ask UTS (1300 275 887)
Ask UTS www.ask.uts.edu.au
www.education.uts.edu.au

Adult education
UTS: Education offers adult education postgraduate courses for people who work, or wish to work, as:

- Human resource developers
- Education and learning consultants
- Vocational educators and trainers
- Language, literacy and numeracy educators, and
- Aboriginal educators and community managers.

Adult education courses are shaped by the following educational principles derived from adult learning theory:

- Learning is a collaborative endeavour involving the mutual negotiation of meaning and understanding.
- Learning is enhanced through the recognition and use of experience and the acquisition and application of knowledge in practice-based activities.
- Learning is a lifelong and socially embedded activity, dependent on mutual respect, diversity of approach and the recognition of relevance to learning.
- Learning involves the appreciation and application of theories in the different and changing contexts of professional practice.
- Learning is enhanced through discussion, critical thought and reflection on taken-for-granted assumptions and practices.
- Learning involves mutual obligations based on the valuing of difference, respect for diversity, responsible and ethical self management.
- Learning is a developmental process involving the recognition, articulation and transformation of knowledge, personal values and theoretical frameworks.

Workplace/flexible learning
Recognising the competing demands of work and home life for students, UTS: Education offers adult education courses in a variety of study modes, which can be tailored to meet student needs. Students can choose to study full time or part time. Many subjects are offered in a variety of learning modes including weekly classes, blocks (intensive, face-to-face learning programs conducted over a number of days each semester, often during school holidays) and weekend workshops. Many of the master’s courses can be done by distance, supported by email contact with lecturers and UTSOnline web-based conferencing tools to keep students in touch with others in their course.

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
fax +61 2 9514 3909
Ask UTS www.ask.uts.edu.au
www.education.uts.edu.au

Training and Development Services
Training and Development Services provides consultancy services and workplace training programs in the fields of training, human resource development and vocational education.
telephone +61 2 9514 3888
fax +61 2 9514 3811
email Michelle.Hatcher@uts.edu.au
www.tds.uts.edu.au

Postgraduate course information

Postgraduate coursework

Progression rules
In accordance with section 10 of the University Rules (Academic Progression), postgraduate students are advised that they may be excluded from a course if they exceed the maximum time allowed for completion of that course (rule 10.5).

Postgraduate research
Centre for Research in Learning and Change
UTS: Education has a well-established and internationally recognised reputation for undertaking research that focuses on the complex and multifaceted relationship between learning and change. Lead researchers are successful in winning competitive research funding and are committed to collaborative approaches to their investigations. The focus of the research is the investigation of the ways in which learning influences and is influenced by changes in educational institutions, workplaces, organisations and communities. The research aims to produce knowledge and practices to enhance learning, to promote more productive organisations and build more effective communities. At the heart of this research endeavour is to understand how learning responds to change, how learning is changing, and how change is embedded in and constructed by cultural and communication practices.

Central to the capacity to change is the ability to learn, not just to have learned well in educational institutions, but to keep learning, to be ready to learn again. Governments, business, communities, professional bodies and special interest groups increasingly invoke learning as a key strategy in understanding and facilitating social, cultural, environmental and economic responses to the numerous challenges presented by post-industrialisation and advances in technology, particularly in information and communication technologies.

The research projects are outcomes based and research outputs are published widely and disseminated through working papers and a seminar series. UTS: Education researchers have extensive experience working in partnership with research sponsors.
Research activities are embedded in the six broad research programs of the UTS research strength:

- discourses and cultural practices
- working, learning and professional practice
- changing communities: education and social action
- teacher learning and development
- language, literacy and literature
- learning and teaching in a digital age.

UTS: Education research students come from a variety of professional communities, are encouraged to be active members of the research centre and programs, and are integral to the success of the UTS: Education research activities and profile. The research degrees are closely linked to the research programs and priority areas for research student applications. Prospective research students are encouraged to view the UTS: Education website to obtain more information about research programs.

A full list of staff research interests and expertise is available at: www.rilc.uts.edu.au

Further information
telephone +61 2 9514 4547
fax +61 2 9514 3939
email Margaret.McGrath@uts.edu.au
www.education.uts.edu.au

UTS: ENGINEERING

Information for students
The Faculty of Engineering and Information Technology (FEIT) is Australia’s leader in practice-oriented engineering and IT education and research, and currently enrols over 7000 students in industry-recognised courses from undergraduate to doctoral level.

The faculty prides itself on its high level of engagement with the engineering and IT professions locally and internationally, by offering short courses and consulting expertise to the local community, and internationally through its courses offered in Hong Kong and Singapore, a significant local international student population and a robust student exchange program. FEIT is also the leading research faculty at UTS, with a diverse range of research being undertaken in matrix across the faculty’s eleven research centres (including one institute) and five academic schools.

The faculty structure comprises four portfolio areas in teaching and learning; research; international; and external engagement, each led by an Associate Dean. Five schools house the academic sub-disciplines of the Faculty of Engineering and Information Technology:

- School of Civil and Environmental Engineering
- School of Computing and Communications
- School of Electrical, Mechanical and Mechatronic Systems
- School of Software
- School of Systems, Management and Leadership.

Location, contacts and inquiries
The Faculty of Engineering and Information Technology is located at City campus, Broadway, in Buildings 1, 2 and 10. Key staff are:

Professor Hung Nguyen
Dean
telephone +61 2 9514 4441
email Hung.Nguyen@uts.edu.au

Dr Tim Aubrey
Associate Dean (Teaching and Learning)
telephone +61 2 9514 2360
email Tim.Aubrey@uts.edu.au

Professor Mary-Anne Williams
Associate Dean (Research)
telephone +61 2 9514 2451
email Mary-Anne.Williams@uts.edu.au

Professor Keith Crews
Associate Dean (External Engagement)
telephone +61 2 9514 2419
email Keith.Crews@uts.edu.au

Professor Deepak Sharma
Associate Dean (International)
telephone +61 2 9514 2422
email Deepak.Sharma@uts.edu.au

Professor Bijan Samali
Head, School of Civil and Environmental Engineering
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email Bijan.Samali@uts.edu.au

Professor Doan Hoang
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telephone +61 2 9514 7943
email Doan.Hoang@uts.edu.au

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Professor Jie Lu
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email Jie.Lu@uts.edu.au

Professor Igor Hawryszkiewycz
Head, School of Systems, Management and Leadership
telephone +61 2 9514 1809
email Igor.Hawryszkiewycz@uts.edu.au
Annette Giles
Faculty Manager
telephone +61 2 9514 4443
email Annette.Giles@uts.edu.au

Engineering and Information Technology Outreach Office
The Engineering and Information Technology Outreach Office manages all faculty marketing activities and school liaison. It is located in Building 2, level 4, room 16 (CB02.4.16). This connects with Building 1 at City campus, Broadway.
The office is generally open from 9am–5pm Monday to Friday.
telephone +61 2 9514 2666
fax +61 2 9514 7803
email engineering@uts.edu.au
www.eng.uts.edu.au

Postal address
Faculty of Engineering and Information Technology
University of Technology, Sydney
PO Box 123
Broadway NSW 2007

UTS Student Centres
All inquiries from currently enrolled UTS students are handled by the UTS Student Centres located across the City (Broadway and Haymarket) and Kuring-gai campuses.

Students enrolled in UTS: Engineering degrees (undergraduate and postgraduate coursework) are advised to direct all their course-related inquiries to:
Building 1 Student Centre
CB01.4 – City campus, Broadway, Building 1, level 4, foyer
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Key student liaison staff
The staff below are the key liaison staff for engineering and information technology students requiring specialist or academic advice to manage their enrolment and student candidature. All students are to direct all initial inquiries to the UTS Student Centre where their inquiry will be processed and forwarded to the key contact staff below only if the matter cannot be resolved by Student Centre staff. An appointment with these staff is based on referral from the UTS Student Centres or within staff consultation times.

Dr Rob Jarman
Director, Undergraduate Programs: UTS: Engineering
telephone +61 2 9514 2368
email Rob.Jarman@uts.edu.au

Dr Prasanthi Hagare
Director, Postgraduate Coursework Programs: UTS: Engineering
telephone +61 2 9514 1952
email Prasanthi.Hagare@uts.edu.au

Chris Wong
Director, Undergraduate Programs: UTS: Information Technology
telephone +61 2 9514 7938
email Chris.Wong@uts.edu.au

Mr Rene Leveaux
Director, Postgraduate Coursework Programs: UTS: Information Technology
telephone +61 2 9514 1958
email Rene.Leveaux@uts.edu.au

Mr Craig Shuard
Research Administration Officer
telephone +61 2 9514 4460
email Craig.Shuard@uts.edu.au

Ms Phyllis Agius
Research Administration Officer
telephone +61 2 9514 2686
email Phyllis.Agius@uts.edu.au

Tracey Moore
Manager, Academic Programs Office
telephone +61 2 9514 2671
email Tracey.Moore@uts.edu.au

Beate Buckenmaier
Manager, International
telephone +61 2 9514 2590
email Beate.Buckenmaier@uts.edu.au

Faculty contacts and areas of interest
A comprehensive list of UTS: Engineering academic staff and their research areas is available from: www.feit.uts.edu.au/about.html

Additional English language and mathematics requirements
UTS: Engineering requires commencing students to undertake English language and mathematics readiness surveys so that the most effective study patterns can be advised. UTS: Engineering reserves the right, when appropriate, to require students who are identified as needing additional support to undertake preparatory English language and/or mathematics courses prior to progressing further in the course, or to restrict the level of advanced standing awarded where this is indicated as appropriate by these readiness surveys.

UTS: Engineering clubs and societies
UTS: Engineering has an active student-run society — the UTS Engineering Society — supporting over 1000 members. The Society runs both industry networking events and a social calendar. It also proudly runs Orientation Camp annually for all new engineering students.

Further information is available from: www.ensosc.org
https://www.facebook.com/groups/2387194794
email utensosc@gmail.com

UTS: Engineering facilities
UTS: Engineering has a strong commitment to providing an effective and supportive learning environment for its students. The Remote Laboratory, one of the first of its kind in the world, enables students to conduct experiments in real time on real experimental equipment via the internet. State of the art labs within the faculty include the Civil Engineering Lab which houses the Shaker Table, the only earthquake simulator of its size in Australia. Engineering students have access to both University computing laboratories as well as a number of faculty computing laboratories adapted for specific courses. The Learning and Design Centres are located at CB01.25.15 and CB01.6.39. They provide access to tutors for individual and small group support, reference material, and software and hardware resources, on a drop-in basis, and are open for extended hours.

Compulsory safety induction
As part of the faculty’s commitment to safety, all engineering and IT students are required to annually complete a safety induction in order to access PIN-protected facilities within the facility. Completion of the safety induction is not required to be able to attend scheduled/supervised lab sessions or use some IT labs during business hours. Students enrolled in an engineering or IT course are automatically given access to enrol in the safety induction through UTS Online (the forum is called ‘UTS: Faculty of Engineering and Information Technology - Safety Induction’).

Students from outside the faculty who enrol in engineering or IT subjects and who need PIN access to faculty facilities must contact the faculty to get enrolled in the safety induction forum:
email FEITPinAdmin@uts.edu.au

This is also the contact for students who have problems with their PIN access.

Professional bodies in engineering
Engineers Australia
Engineers Australia is the principal professional body and learned society for engineers in Australia. Its membership covers all branches of engineering, with specialist colleges catering for the main fields of practice. Its headquarters is located in Canberra, with operating divisions in capital cities and regional centres. The local division, which covers UTS, is the Sydney Division. It runs an annual program
of lectures, seminars and professional activities, with particular events for young engineers. The division’s office is located in Chatswood:

phone +61 2 9410 5600
www.engineersaustralia.org.au

The Association of Professional Engineers, Scientists and Managers, Australia

The Association of Professional Engineers, Scientists and Managers, Australia (APESMA) provides advice and assistance on employment-related matters for professional engineers, scientists and managers. Student members receive the publication The Student Update three times a year, which gives practical insight into the workplace and employment issues that affect them as professional engineers. For information and student membership application forms contact APESMA on:

telephone 1300 273 762

Other bodies

There are a number of other national and regional associations representing particular branches of engineering. UTS: Engineering staff with interests in the field concerned are often active in these bodies and able to provide information.

Women in Engineering and IT program

The Women in Engineering and IT (WiE&IT) program at UTS is a long-standing initiative to redress the low rate of female participation in the field by: communicating the opportunities of engineering and ICT careers as a course of study; promoting the involvement of women in the course, the Faculty and research at UTS; and by networking with professionals from engineering and ICT fields and professional organisations. It also seeks to address attitudes and behaviours which may deter students and staff from achieving, in a safe and rewarding learning, research and working environment.

The WiE&IT program invites students, staff and industry to support the ongoing activities in 2013 and contribute ideas for new initiatives which will attract and support more women to choose to study engineering and IT.

Read more about the program at:

www.utswomeningenieringandit.blogspot.com

Practice-oriented engineering education

What does it mean?

Practice-oriented engineering education requires students to experience the reality of engineering from an early stage in their professional formation — through internship. It actively relates this experience to their developing understanding of engineering theory, analysis and laboratory work, and to studies in other disciplines, and it promotes creative thinking based on knowledge gained outside as well as within the University. This interaction requires that most academic staff have significant experience of engineering practice and keep it constantly refreshed. Educational programs in which students or a majority of staff do not have current experience cannot validly be called practice-oriented.

Practice-oriented education is more than practice and more than education. A university education should impart a thorough grasp of fundamental principles, a respect for knowledge, a capacity for critical inquiry and lateral thinking, a fluency in communication, a pride in excellence and an eagerness to contribute to shaping the future. Practice-oriented engineering education claims that these attributes can be more effective when they have been developed in contact with the human and technical challenge of real engineering situations.

Engineering education at UTS

In Australia, the basic qualification for professional engineering is the Bachelor of Engineering (BE) degree. At most universities, the BE occupies four years of full-time academic study. At UTS, as well as completing the academic program, all undergraduate engineering students must gain substantial approved engineering experience in industry or in authentic professional settings. This experience must be distributed over the period of the course and must meet standards of quality and relevance. This experience is recognised in the award of a Diploma in Engineering Practice (DipEngPrac). The combined BE DipEngPrac degree takes five years to complete.

Graduates of most university engineering courses need up to two years’ experience in industry, after graduation, before they are able to assume real responsibility. UTS: Engineering graduates have already gained much of this experience together with a real understanding of the interrelations between theory and practice, technology and human factors. They are equipped to undertake professional responsibility much sooner than graduates of other courses at other universities — often upon graduating.

The combination of formal academic learning in the University and experiential learning in the workplace is called cooperative education. UTS: Engineering courses have embodied this principle for over 30 years. The courses are highly regarded in industry and, according to many reports and surveys, the graduates enjoy the highest employment rate of any engineering degree courses in Australia. Cooperative education is also well known and highly regarded in other countries, particularly in North America. UTS is a member of the World Council for Cooperative Education.

The UTS BE DipEngPrac extends the concept of practice-oriented engineering education into one of total professional formation and leads to the combined award of Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140). Students’ perception of the value of the periods spent employed in industry — the internships — is illustrated by the very high percentage of students who choose to continue to mix work and study even after completing the formal internship requirements.

Other UTS: Engineering courses, undergraduate and postgraduate, are also designed to interact strongly with industry, though the work-experience requirements are mostly less structured than those of the BE DipEngPrac. In all programs, the majority of students already have significant industrial experience or are gaining it concurrently. UTS: Engineering has policies for maximising opportunity for its academic staff to maintain first-hand experience in industry and engages many practising engineers as adjunct teaching staff. It also strongly encourages collaborative research and consultancy with industry and many of its research students are industry-based. The predominant culture, therefore, is strongly practice-oriented and this also benefits the relatively small number of students who do not yet have engineering work experience.

In all of its activities, UTS: Engineering seeks to promote a better understanding of the role of engineering in society and to promote and support service to the community through other channels as well as industry.

Continuing professional education

Practising engineers wishing to undertake continuing professional education may, if class sizes permit, enrol in single subjects. All enrolments on this non-award basis incur full-cost recovery fees. Their successful completion creates the possibility of advanced standing credit under existing University policies, should candidates decide to enrol in a course.

Further information is available at:

www.uts.edu.au/study-fees.html

In addition, in-house short courses, seminars, workshops and other professional development programs are offered from time to time, frequently in response to corporate invitations or opportunities arising from visits by international experts. Further information on continuing professional opportunities through UTS: Engineering is available at:

www.eng.uts.edu.au/courses/short

Short courses

Courses in playground safety

The Royal Society for Prevention of Accidents (RoSPA) and UTS: Engineering offer regular short courses on playground safety, design, maintenance and inspection including:

- Accredited Outdoor Playground Inspectors Course: Routine Inspections Level 1 (1 day)
- Accredited Outdoor Playground Inspectors Course: Operational Inspection Level 2 (3 day)
- Accredited Outdoor Playground Inspectors Course: Revision and Reaccreditation Operational Inspection Level 2R (1 day)
- Designing Playgrounds and Outdoor Spaces: Module A – Standards and Accessibility (2 day).

Floodplain Risk Management

The Floodplain Risk Management subject is aimed at elected local government councillors, community representatives on floodplain risk management committees, engineers and planners in both government and consultancies seeking a background in floodplain risk management and associated land use planning issues.
This course is conducted by UTS in conjunction with the:
• Floodplain Management Authorities (FMA), and
• NSW Department of Environment and Climate Change (DECC).
Taught by industry experts, including those from DECC, the NSW State Emergency Service, local government and consultancy, this course shows how to develop and implement floodplain risk management in accordance with the Floodplain Development Manual.
Courses available:
• Introduction to Floodplain Risk Management
• Managing Flood Risk to Existing Property
• Effective Consideration of Flood Risk in Land using Planning.

Further information
For further information, contact:
Angelia Lawah, UTS: Engineering Short Course Administrator
telephone +61 2 9514 1806
e-mail liuangelia.lawah@uts.edu.au
www.eng.uts.edu.au/courses/short

Undergraduate course information
UTS: Engineering's flagship course is the five-year Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140). Students graduating with this award can major in civil, civil and environmental, electrical, ICT engineering, innovation, mechanical, mechanical and mechatronic engineering or graduate without specifying a major. In addition, a major may be combined with a sub-major in another discipline.
UTS: Engineering also offers a four-year Bachelor of Engineering (C10067) (see page 152) available only to international students, a three-year Bachelor of Engineering Science (C10066) (see page 149) available only to international students, as well as the combined degree awards Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice (C10062) (see page 146), Bachelor of Engineering Bachelor of Business (C10065) (see page 148), Bachelor of Engineering Bachelor of Science (C10073) (see page 160), Bachelor of Engineering Bachelor of Medical Science (C10075) (see page 167), Bachelor of Engineering Bachelor of Biotechnology (C10078) (see page 170) and Bachelor of Engineering Science Bachelor of Laws (C10136) (see page 190).
The same educational philosophy underpins all awards: students undertake a set of core subjects, a set of practice subjects that defines their major and, in some cases, a set of electives. The Diploma in Engineering Practice award requires the completion of two internships. The single Bachelor of Engineering and combined Bachelor of Engineering courses require the completion of 12 weeks work experience. The credit recognition policies and assumed knowledge are the same for all courses.
The Bachelor of Engineering Diploma in Engineering Practice is described below including information on course structure. For detailed information on the subjects in each major, or information on other courses, refer to the individual course entries (see page 12).

Bachelor of Engineering Diploma in Engineering Practice
The program leading to the combined award of Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) (BE DipEngPrac) is a comprehensive preparation for careers in engineering, or with a non-specified major. The choice of major can be made at entry or postponed until the end of the first year without extending completion time (subject to availability of places and adequate performance). Further majors may be introduced in subsequent years in response to technological developments and employment demand, and provision will be made to allow students to change from existing majors. It is also possible for students to negotiate a program that focuses on an area outside the major listed above. There is considerable elective scope which can be used to extend engineering knowledge or to take a sub-major in a discipline such as business or social science.

Course structure
The overall program comprises five principal components: the core program, the Engineering Practice Program, the fields of practice subjects, the electives and the Capstone Project. The core program, the Engineering Practice Program and the Capstone Project are common to all students undertaking the BE DipEngPrac.

Core program
This component provides a framework covering knowledge, skills and attributes that are relevant to all engineers across all fields of practice. It consists of common mathematics and physics subjects, and common engineering subjects which draw on several fields of engineering practice to develop interdisciplinary knowledge and skills within the larger context of professional practice.
The core program runs throughout the course from admission to graduation. Students take differing combinations of subjects in their first year, and in each successive year, depending on their choice of major.

Engineering Practice Program
The Engineering Practice Program supports and assesses student learning in workplace and community environments. Its objectives are to prepare students for engineering work experience, to support them during that experience and to assist them in maximising learning. The program also supports the integration of this experiential learning within the theoretical and practical aspects of the academic curriculum, and common engineering subjects which draw on several fields of engineering practice to develop interdisciplinary knowledge and skills within the larger context of professional practice.
A fundamental objective is to develop the ability to learn in a wide variety of modes and contexts and to critique and contribute to those learning environments on a lifelong basis.
The program is administered through a series of subjects offered in various modes. Students enrol in the program as a whole and are guided through the respective modules. Students are ultimately responsible for their progression through the program. Academic and workplace mentors and supervisors act as facilitators; administrative staff assist in ensuring that students’ progress is recorded and validated; and Industry Partnering Unit staff assist in screening suitable work placements and in establishing cooperative programs with industry and the community.
The minimum time in the workplace required to satisfy each engineering internship subject is 22 weeks. In total, however, 48 weeks must be gained by the required deadline to meet course requirements and to be eligible to graduate.
Internships are organised into two blocks of six months each. Students are required to undertake the relevant prerequisite subjects prior to undertaking their internships and in a semester following an internship are required to enrol in the appropriate review subjects. Credit point limits also apply to some of these subjects. Details of prerequisite subjects and subjects required to be completed after each internship are listed under STM90271.
While students are encouraged to undertake additional work experience, they are only permitted to complete each of the two official internships once.

Industry Partnering Unit
The Industry Partnering Unit (IPU) assists students in obtaining internships. The staff of the IPU maintain contact with industry and on average facilitate 250 internships a semester. IPU staff keep records of students’ intentions of seeking and securing internships. A service is also offered to advise students on the preparation of résumé, presentation at interviews and advice on how to find work opportunities in Australia and overseas. Students seeking work experience must register with IPU in the semester preceding their intended period of work and the semester of their internship.
IPU maintains a database, called Industry Internship Management System (I2MS), which provides the interface between the student and company. Once students have access and an active résumé on I2MS they can apply for internships. This system also records the detail of junior and senior internships. It is the students’ responsibility to advise
IPU of the start and finish dates of the internship and also check they enrolled in the appropriate engineering experience subjects.

Fields of practice and majors
This component relates theoretical and practical learning from core subjects to applications in specific fields of engineering internship. It develops knowledge of engineering science and technologies relevant to particular branches of engineering and specialist technical expertise. Particular sets of subjects constitute majors in the respective fields of practice, as set out below. A major provides the essential foundations needed for practice in that field, familiarity with current practice, awareness of likely developments and knowledge of resources available for future self-directed learning.

All majors emphasise and develop the essential engineering skills of observation and experimentation, analysis and synthesis, modelling, systems thinking, conceptual reasoning and judgment, and problem formulation and solving, using as case studies the technologies and contexts relevant to the particular field of practice. Each major involves substantial laboratory content, designed to integrate theoretical and practical understanding. All are designed to link with the core program and with engineering internship.

The totality of all fields of practice subjects across all majors provides the pool from which students wishing to graduate with a non-specified major may draw (subject to approval) to make up their field of practice component. Some fields of practice include subjects taught wholly or partly by other faculties.

Electives
In general, students may devote 24 credit points to electives. A range of electives may be taken to broaden or deepen knowledge. Some students may wish to explore introductory engineering subjects before making their choice of major, in which case the additional subject(s) may be counted (subject to conditions) as part of the elective component. The elective component also provides a mechanism for recognition of prior learning. Further, the elective component affords maximum flexibility for students wishing to undertake study on international exchange with our overseas partner institutions.

Students are not permitted to take an elective subject that covers substantially the same material as a required subject or a subject already undertaken. Undergraduate students may enrol in approved electives. UT斯: Engineering postgraduate subjects provided they have completed at least 120 credit points of their undergraduate degree and met prerequisite requirements. Undergraduate students may undertake up to four approved postgraduate subjects. A maximum of three approved postgraduate subjects recently undertaken as part of an undergraduate degree may be used to apply for exemptions from a UT斯: Engineering master's degree provided the subjects fulfil the equivalent subject requirements.

The combined degrees have no electives.

Capstone Project
In the final semesters of the degree, each student undertakes a Capstone Project, supervised by a member of academic staff and designed to consolidate and integrate learning in all aspects of the program. Industry-linked projects, under joint supervision, are strongly encouraged.

The project topic must be approved by an academic supervisor and must be relevant to the field of practice concerned. It may be largely technical in emphasis or it may encompass a range of technical and contextual challenges.

The Capstone Project results in a substantial report which must be written and produced to professional engineering standards and must demonstrate the student's readiness for professional engineering practice.

Credit recognition
Students with prior formal learning (such as other university study or TAFE qualifications) may be entitled to credit recognition in the form of subject exemptions. The level of credit recognition depends on the relevance of the area of study to the proposed major in the BE DipEngPrac. For a TAFE diploma in the same area students can expect to receive between 24 and 36 credit points of exemptions, depending on the grades obtained in the TAFE subjects.

Exemption from part of the Engineering Practice Program is granted only on the basis of actual work experience completed before commencing the course that can be shown to meet the required standards. The maximum exemption given is for one work-experience semester. Without exception, all students in the engineering practice program must complete all components associated with the second internship.

UT斯: Engineering reserves the right to advise any student who is admitted with credit recognition, and who is not succeeding in the program, to undertake some or all of the subjects from which exemption had been granted.

Postgraduate course information
UT斯: Engineering offers postgraduate coursework and research programs, providing a wide range of professional development opportunities to engineers and other graduates. In fulfilling these responsibilities, UT斯: Engineering draws on its close links with industry to offer distinctive programs that are highly regarded by engineering-dependent enterprises.

In 2012, over 900 students were enrolled in postgraduate coursework programs and over 200 in research degree programs.

Postgraduate award courses may be taken by coursework or research. UT斯: Engineering supports research through its management of postgraduate research, development of research strengths and centres, encouragement of individual researchers and research teams, facilitation of interdisciplinary research, and sponsorship of visits to UT斯: Engineering by internationally renowned experts.

In addition to award courses, UT斯: Engineering provides opportunities for continuing professional development through studies undertaken on a non-award basis.

The following information is intended to assist postgraduates to plan and complete their studies within UT斯: Engineering. Additional information can be obtained online and from other publications or by direct inquiry.

Postgraduate coursework
Specialist courses
UT斯: Engineering offers specialist courses by coursework in several fields. Each of these courses includes core subjects which must be satisfactorily completed during studies for the award.

Students in any specialist course receive preference in the allocation of class places in core subjects. Students taking popular subjects through elective studies are allowed to enrol when places are available.

• Master of Engineering Management (C04094) (see page 314)
• Master of Engineering Management Master of Business Administration (C04102) (see page 322)
• Masters of Engineering Studies Master of Engineering Management (C04207) (see page 338)
• Master of Environmental Engineering Management (C04098) (see page 321)
• Graduate Certificate in Engineering Management (C11054) (see page 434)
• Graduate Certificate in Environmental Engineering Management (C11051) (see page 432)

General courses
A range of coursework programs is available through UT斯: Engineering, leading to the general awards of Master of Engineering (by coursework), Master of Engineering Studies and Graduate Certificate in Engineering.

For each of these general awards, postgraduate majors are available. The majors offered reflect current research strengths and interests in UT斯: Engineering.

• Master of Engineering (C04090) (see page 309)
• Master of Engineering Studies (C04097) (see page 315)
• Graduate Certificate in Engineering (C11048) (see page 428)

Distance education
Flexibility is a major feature of UT斯: Engineering's postgraduate engineering management and environmental engineering management programs.

The distance education program is designed to meet the professional needs of busy engineers. Core subjects and a selection of electives can be taken in distance mode as well as standard attendance mode.

The following are examples of subjects that may be offered in distance mode:

• 49122 Ecology and Sustainability
• 49003 Economic Evaluation
• 49121 Environmental Assessment and Planning
• 49001 Judgment and Decision Making
• 49069 Leadership and Responsibility
• 49013 Managing Information Technology in Engineering
• 49002 Managing Projects
• 49309 Quality Planning and Analysis
• 49123 Waste and Pollution Management

Progression
Postgraduate engineering students may be excluded from further study at the University if they fail more than 50 per cent of the total number of enrolled credit points from the commencement of the course.
Postgraduate engineering students may also be excluded from a course if they exceed the maximum time allowed for completion of that course (see rule 10.5).

Timetables
UTS timetable information is available from:
http://timetable.uts.edu.au

Majors
Postgraduate majors are available in the Master of Engineering (ME), Master of Engineering Studies (MEStud) and Graduate Certificate in Engineering (GradCertE).

UTS: Engineering offers an extensive range of programs by research and/or coursework through its award and non-award courses. A selection of these program majors are described below. Information on other specialist research areas can be obtained from individual members of academic staff.

Program majors have been developed to match the needs of engineers and other professionals. They provide opportunities for advanced studies and professional development in engineering and cross-disciplinary areas between engineering and other disciplines.

All postgraduate program majors are differentiated by their focus, structure, presentation, attendance flexibility, assessment practices and multiple entry/completion options.

Students are entitled to have the name of the major listed in their degree transcript (not the testamur) if they have completed the following:
• ME (by coursework): a minimum of four subjects (24 credit points) must be completed within the particular postgraduate program major as described below, together with an approved graduate project in the major of between 18 and 30 credit points.
  Indicated major compulsory subjects must be completed.
• MEStud: a minimum of four subjects (24 credit points) must be completed within the particular postgraduate program major.
  Indicated compulsory major subjects must be completed. Any special topics listed in the program major are not available in the MEStud. To obtain the energy planning and policy major, students must complete eight subjects (48 credit points) from the respective program major list. MEStud management subjects do not apply to these majors. To obtain the software engineering major, students must complete all five subjects from the major as well as the management subjects.
• GradCertE: a minimum of three subjects (18 credit points) must be completed within the particular postgraduate program major as described below. Indicated compulsory major subjects must be completed.

Postgraduate program majors reflect current research strengths and interests in UTS: Engineering and change with time. The availability of individual subjects in any year is influenced by student demand, arrangements with visiting lecturers, scheduling within the University and policies on class sizes.

If, in the opinion of the Director of Postgraduate Coursework Programs, a student does not have the required prerequisite knowledge to successfully undertake and complete a major, the student may be required to undertake one or two preparatory undergraduate subjects.

Biomedical Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
Dr Steven Su
CB01.24.10B
telephone +61 2 9514 7603
fax +61 2 9514 2435
email Steven.Su@uts.edu.au

Civil Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
Dr Shami Nejadi
CB02.5.12
telephone +61 2 9514 2617
fax +61 2 9514 2633
email Shami.Nejadi@uts.edu.au

Civil Engineering and Structural Engineering
This major is available in the MEStud only.

Academic inquiries
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Computer Control Engineering
This major is available in the ME, MEStud and graduate certificate.

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email Steven.Su@uts.edu.au

Energy Planning and Policy
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
Professor Deepak Sharma
CB02.7.078
telephone +61 2 9514 2422
fax +61 2 9514 2633
email Deepak.Sharma@uts.edu.au

Engineering Management
This major is available in the ME only.

Specialist programs in engineering management are available as a Master of Engineering Management (C04094) (see page 314) and as a Graduate Certificate in Engineering Management (C11054) (see page 434).

Academic inquiries
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email Ravindra.Bagia@uts.edu.au

Environmental Engineering
This major is available in the ME only.

Specialist programs in environmental engineering management are available as a Master of Environmental Engineering Management (CD0498) (see page 321) and as a Graduate Certificate in Environmental Engineering Management (C11051) (see page 432).

Academic inquiries
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fax +61 2 9514 2633
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Local Government Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
Ken Halstead
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fax +61 2 9514 2633
email Ken.Halstead@uts.edu.au
Manufacturing Engineering and Management
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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fax +61 2 9514 2435
e-mail Jin.Ji@uts.edu.au

Operations
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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Software Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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e-mail Zenon.Chaczko@uts.edu.au

Structural Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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fax +61 2 9514 2633
e-mail Shami.Nejadi@uts.edu.au

Telecommunication Networks
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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fax +61 2 9514 2435
e-mail Anthony.Kadi@uts.edu.au

Telecommunications Engineering
This major is available in the ME, MEStud and graduate certificate.

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fax +61 2 9514 2435
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Telecommunications Engineering and Telecommunication Networks
This major is available in the MEStud only.

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fax +61 2 9514 2435
e-mail Anthony.Kadi@uts.edu.au

Water Engineering
This major is available in the ME, MEStud and graduate certificate.

Academic inquiries
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Postgraduate research
UTS: Engineering has a lively and cutting-edge research culture driving advances in engineering and IT technology, practice and education. UTS: Engineering’s research is needs-driven and collaborative and works with many enterprises in business partnerships. Researchers are world-class and recognised leaders in their fields, responsible for delivering new, better and more cost-effective solutions to complex engineering challenges.

Research is varied and utilises modern laboratories and research facilities on the City campus, Broadway. These are supported by extensive computing facilities and library services. The laboratories have excellent back-up workshops and expert support staff. Many opportunities exist for professional development through challenging, well-resourced research programs.

Contacts and inquiries
The management and administration of all research matters of the Faculty of Engineering and Information Technology is managed through the faculty’s Research Office, headed by the Associate Dean (Research). The office is responsible for a broad range of matters including, but not limited to, research-strategic priorities, policy and planning, and advice and support to faculty staff in preparing grant applications, research publications, research conferences and research degree student supervision. The associate dean is supported by the Director of Research Programs, the Research Manager and the research administration officers, who are responsible for the academic management and support of research degree students and general research matters respectively.

Research matters are governed via the Research Management Committee and Research Degrees Committee that report to the Faculty Board in Engineering and Information Technology. The Research Management Committee has overarching responsibility for determining the faculty’s research strategies and policies, and for making recommendations in relation to building research culture and profile, and for budgetary and resourcing matters relating to research. The Research Degrees Committee makes recommendations and sets policies relating to candidature management of higher degree by research students, from admission through to graduation.

Specific inquiries should be directed to the Faculty of Engineering and Information Technology Research Office. Key staff are:

Associate Professor Jaya Kandasamy
Director of Research
telephone +61 2 9514 2558
e-mail Jaya.Kandasamy@uts.edu.au

Dan Gollan
Research Manager
telephone +61 2 9514 7863
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Research Administration Officer
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email Gunasmin.Lye@uts.edu.au

Craig Shuard
Research Administration Officer
telephone +61 2 9514 2591
email Craig.Shuard@uts.edu.au

General inquiries from domestic students should be directed to:
UTS Graduate Research School
telephone +61 2 9514 1336
General inquiries from international students should be directed to:
UTS International
telephone 1800 774 816 (free call within Australia)

Research profile and strengths
The Faculty of Engineering and Information Technology has a number of key research centres and institutes. These centres are hives of research activity that have international standing within their respective discipline areas. The centres and institutes include:
• Advanced Analytics Institute
• Centre for Built Infrastructure Research
• Centre for Energy Policy
• Centre for Electrical Machines and Power Electronics
• Centre for Health Technologies
• Centre for Human-Centred Technology Design
• Centre for Innovation in IT Services and Applications
• Centre for Quantum Computation and Intelligent Systems
• Centre for Intelligent Mechatronic Systems
• Centre for Real-Time Information Networks
• Centre for Technology in Water and Wastewater.

Collaborative research
UTS: Engineering’s researchers work with private and public companies to achieve their strategic objectives in engineering research and development. These collaborative programs tend to be long-term and offer mutually beneficial outcomes, with the economic, business, social and environmental dimensions of engineering being addressed explicitly. Most collaborative research is supported by sponsorships or grants.

Research opportunities and major research areas
Research opportunities are available in the following areas of specialisation:

School of Computing and Communications: wireless relay / mesh and cooperative networking, body area networking, micro- and nano-scale networks, 4G (WiMAX, LTE), short-range RF and inductive near field communication systems and sensing, antennas and propagation, microwave engineering, national broadband network, multi-antenna systems, wireless sensor networks, bio-mimetic paradigms for network management and configuration, autonomous communications, anticipatory systems, radio resource management (RRM) mechanisms, Satellite communications and broadcasting, LAN/WAN enterprise networking, network embedded applications, m-health monitoring, mobile networks, personal area networks, multilayer switching, mobile and distributed multimedia applications and services, network security, internet service architecture, programmable networks, internet quality of service, web technologies, web architecture framework, mobile commerce and internet business, location-based services, network grid services, peer to peer networks, digital signal processing, pattern recognition, computer vision, multimedia, image processing, video analysis, machine learning, cognitive and affective multimedia content analysis and multimedia systems.

School of Civil and Environmental Engineering: built infrastructure, structural engineering, geotechnical engineering, construction materials, local government, road engineering, water and environmental resource management, water modelling, membrane technology in water and wastewater treatment, soil contamination and remedial techniques, and solid waste management.

School of Electrical, Mechanical and Mechatronic Systems: advanced control, artificial intelligence, autonomous robotics, automotive engineering, biomedical engineering, energy, embedded systems, health technologies, mechatronics, power systems, and renewable energy.

School of Software: art and technology, artificial intelligence, computer animation, computer games, computer graphics, computer usability, data mining, e-finance, e-government, e-health, e-marketing, e-safeguard, e-security and e-service, emergency management, expert systems, human-computer interaction, information systems, innovation and creativity, innovation and technology, intelligent agents, intelligent problem solving and smart business decision-making in engineering, interaction design, interactive entertainment, interactive storytelling, learning environments, multi-agent systems, multimedia, next-generation automated enterprise cooperative infrastructure, object-oriented computing, object-oriented processes and methodologies, ontologies, optimisation activities, quantum computing, ray tracing, rendering techniques, requirements engineering, resource planning, robotics, semantic web, smart trading systems, software development, and technology design and use.

School of Systems, Management and Leadership: energy policy and planning, engineering practice, environmental risk, information systems, IT education, IT governance, IT strategy and management, knowledge management, operations and risk management, strategic IT leadership, systems analysis and design, systems development, and systems theory and socio-technical systems.

Further information is available from: www.eng.uts.edu.au

Research centres and institutes
The Faculty of Engineering and Information Technology supports several institutes and centres, each capturing established research strengths in engineering, information technology and related fields. These include the following.

Advanced Analytics Institute (AAI)
AAI provides interdisciplinary expertise and leadership in areas including data mining, machine learning, applied statistics, behaviour analytics, data science and engineering, marketing, finance, economics, decision-making, optimisation and risk management. AAI offers cross-disciplinary and cross-domain research capabilities and hands-on experience in advanced analytics across historical data, real-time information and future trends. Analytics is a fast-growing global industry with an ever-increasing demand for qualified graduates. AAI at UTS, a cross-disciplinary approach to analytics research brings together experts from across UTS's faculties and research centres to form a specialist analytics group. AAI brings together leading researchers from the Faculty of Engineering and IT, the Faculty of Business, the Centre for Quantum Computation and Intelligent Systems (QCIS) and the Centre for the Study of Choice (CoSoC). The Institute also fosters dedicated research and development resources for advanced analytics and receives resource support from the UTS External Engagement department and the UTS Research Innovation Office.

AAI offers unique training programs in broad-based analytics. AAI is working towards fostering world-class specialists and analytical project managers for specific domains through a supervisor-driven and practice/project-oriented approach, interdisciplinary workshops, short courses (including executive training), and day-to-day engagement in tier-one organisations.

Director
Associate Professor Longbing Cao
telephone +61 2 9514 4411
email advancedanalytics@uts.edu.au
www.analytics.uts.edu.au

Centre for Built Infrastructure Research
The Centre for Built Infrastructure Research (CBIR) comprises a multidisciplinary team of researchers from the faculties of Engineering and Information Technology; Science; and Design, Architecture and Building. CBIR’s nationally and internationally renowned work focuses on finding solutions to important global problems in control, rehabilitation and health monitoring of building structures and bridges, green and smart materials, sustainable design, management, improvement, safety, and conservation.

Director
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www.research.uts.edu.au/ strengths/bi
Centre for Electrical Machines and Power Electronics
The Centre for Electrical Machines and Power Electronics (CEMPE) is principally concerned with electrical variable speed drives and generation of electricity using rotating electrical machines and renewable sources (such as wind and hydro). The technical research disciplines necessary for these two areas are very similar, covering electrical machines design, power electronics and mechanical design. The interest in renewable energy generation is primarily for remote areas and developing countries, so the incorporation of expertise in design for such areas is valuable, with the inclusion of energy requirements analysis, energy economics, technology transfer and human management issues.

Director
Professor Joe Zhu
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email Jianguo.Zhu@uts.edu.au
http://services.eng.uts.edu.au/ cempe

Centre for Energy Policy
The Centre for Energy Policy (CEP) addresses contemporary energy and environmental policy issues in national and international contexts. Energy market reforms, environmental policy options and energy–economy interactions are key areas of focus. Research undertaken in the centre is policy-oriented, applied and cross-disciplinary, emphasising the weaving together of technical, business, economic, legal, social, political and philosophical dimensions of energy, environmental and economic policies.

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Centre for Human Centred Technology Design
The Centre for Human Centred Technology Design (HCTD) is committed to information and communications technology (ICT) design research, methods and approaches, as defined by its commitment to the human, that is, to those who will use the technology.

HCTD's approach furthers the development of a much needed socio-technical perspective on technology design that can both balance and extend the more common technology driven or management driven perspectives. HCTD's focus is on understanding the complex interplay between the drivers of social, organisational and technical change and how these shape, and are shaped by, the design, implementation and use of information and communication systems. The centre's research outcomes contribute to the design and development of ICT that fit easily and appropriately into the social, cultural and organisational contexts within which they will be used.

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Lab Director: Professor Ernest Edmonds
e-mail Ernest.Edmonds@uts.edu.au
Games Studio
Lab Director: Associate Professor Yusuf Pisan
e-mail Yusuf.Pisan@uts.edu.au
Centre for Object Technology Applications and Research (COTAR)
Lab Director: Professor Brian Henderson-Sellers
e-mail Brian.Henderson-Sellers@uts.edu.au
Technology, Education, Development and Design Research Laboratory (Tedd)
Lab Director: Andrew Litchfield
e-mail Andrew.Litchfield@uts.edu.au

Centre for Innovation in IT Services and Applications
The Centre for Innovation in IT Services and Applications (iNEXT) is a world-class research environment for developing and nurturing innovation for the next generation IT services and applications, including internet-enabled business applications, mobile health services, high-end visualisation technologies, novel image processing architectures and advanced video surveillance systems.

• Future internet: iNEXT aims to develop those enabling mechanisms that will allow the transformation of the current connectivity infrastructure into the service infrastructure of tomorrow's internet.
• Applications and services: iNEXT aims to develop innovative applications with special focus on assistive mobile health and internet-enabled business applications.
• Visual information processing: iNEXT aims to define novel visualisation techniques and intelligent recognition algorithms for extracting important information from video streams and wireless sensor networks for surveillance and environmental monitoring purposes.

Commercialisation of such applications and services is particularly emphasised. iNEXT includes a significant research training component, graduating many research students in the past years.

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Computer Vision and Image Processing Lab
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Surveillance Lab
Lab Director: Professor Massimo Piccardi
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Visualisation Laboratory
Lab Director: Associate Professor Mao-Lin Huang
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Centre for Human Centred Technology Design
The Centre for Human Centred Technology Design (HCTD) is committed to information and communications technology (ICT) design research, methods and approaches, as defined by its commitment to the human, that is, to those who will use the technology.

HCTD's approach furthers the development of a much needed socio-technical perspective on technology design that can both balance and extend the more common technology driven or management driven perspectives. HCTD's focus is on understanding the complex interplay between the drivers of social, organisational and technical change and how these shape, and are shaped by, the design, implementation and use of information and communication systems. The centre's research outcomes contribute to the design and development of ICT that fit easily and appropriately into the social, cultural and organisational contexts within which they will be used.

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Creativity and Cognition Studio (CCS)
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Games Studio
Lab Director: Associate Professor Yusuf Pisan
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Centre for Object Technology Applications and Research (COTAR)
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Technology, Education, Development and Design Research Laboratory (Tedd)
Lab Director: Andrew Litchfield
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Centre for Innovation in IT Services and Applications
The Centre for Innovation in IT Services and Applications (iNEXT) is a world-class research environment for developing and nurturing innovation for the next generation IT services and applications, including internet-enabled business applications, mobile health services, high-end visualisation technologies, novel image processing architectures and advanced video surveillance systems.

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Commercialisation of such applications and services is particularly emphasised. iNEXT includes a significant research training component, graduating many research students in the past years.

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Surveillance Lab
Lab Director: Professor Massimo Piccardi
e-mail Massimo.Piccardi@uts.edu.au
Visualisation Laboratory
Lab Director: Associate Professor Mao-Lin Huang
e-mail Mao.Huang@uts.edu.au
Centre for Intelligent Mechatronic Systems

Building on 15 years of strong cross-disciplinary research in electrical machines and power electronics at UTS, the Centre for Intelligent Mechatronic Systems (CIMS) integrates the disciplines of mechanical, electrical and electronics engineering and computer systems. Its four main research directions are: autonomous robots (operating in unstructured environments and for infrastructure maintenance, search and rescue, health care and road vehicles); electrical machines (new materials and topologies, system optimisation, variable speed control and compact, low-temperature fuel cells); automotive systems (performance, comfort, fuel efficiency, road safety and emission control); and human factors (physiological and psychological aspects of human–machine and human–environment interaction).

**Director**
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Centre for Quantum Computation and Intelligent Systems

The Centre for Quantum Computation and Intelligent Systems (QCIS) is a research centre within the University’s Priority Investment Research Program. The centre’s mission is to be acknowledged by research centres throughout the world as a pre-eminent research centre in quantum computation and intelligent systems, and to be acknowledged by Australian industry and government as a leading source of knowledge and expertise in quantum computation and intelligent systems.

The centre was established in April 2008 with a vision to develop:
- theoretical foundations for quantum computation
- theoretical foundations for intelligent systems, and
- innovative technologies for intelligent systems.

This technology will result in next-generation enterprise intelligent system information systems.

The centre’s five major research programs cover quantum computation, knowledge discovery, decision support, innovation and infrastructure enhancement. Together, these programs develop a set of innovative and practical methodologies and techniques for intelligent information processing and system building for a broad range of businesses in the finance, marketing, security, health, government and engineering sectors.

**Director**
Professor Chengqi Zhang
e-mail Chengqi.Zhang@uts.edu.au

Centre for Real-Time Information Networks

The Centre for Real-Time Information Networks (CRIN) aims to support research and development activities related to the efficient creation, collection, transmission, analysis and use of information in real-time, engineering-embedded applications. The centre supports the improvement of Australian society through a focus on applied research achieved through close links with both industry and research bodies working in appropriate application domains.

Examples of priority areas of interest for the centre are national security for safeguarding Australia, healthcare diagnosis and monitoring for the cost-effective improvement of the health of Australians, environmental and resource monitoring for a sustainable Australia, and the smart use of the web in supporting Australian industry.

The centre aims to design, fabricate and test proof of concept systems, in which the performance and operational suitability of the developed systems shall be demonstrated. The proof of concept systems may be electronic hardware, software, or a combination of hardware and software, and will include the latest prototyping technologies, such as embedded processors, high-performance networks and sophisticated distributed software applications.

**Director (acting)**
Associate Professor Kumbesan Sandrasegaran
telephone +61 2 9514 2428
e-mail Kumbesan.Sandrasegaran@uts.edu.au

Centre for Technology in Water and Wastewater

The Centre for Technology in Water and Wastewater (CTWW) undertakes research to ensure the sustainable management of water resources in both urban and rural environments, in Australia and internationally. This collaborative research centre links researchers, government, industry and community partners through its research programs, which include solid liquid separation and filtration technologies in water treatment; innovative biological treatment systems for wastewater treatment; membrane hybrid nanotechnology systems in water, wastewater and stormwater treatment; water reuse; desalination; in situ barrier and other systems for treatment of groundwater, surface and groundwater hydrology; bio-solid and waste management; urban water cycles and soil/aquifer interaction; and flood management and catchment modelling for flood prediction.

**Director**
Professor Saravanamuth Vigneswaran
telephone +61 2 9514 2641
e-mail Saravanamuth.Vigneswaran@uts.edu.au

Laboratories and contacts

**Quantum Computation Laboratory**
Lab Director: Associate Professor Runyao Duan
email Runyao.Duan@uts.edu.au

**Data Sciences and Knowledge Discovery Laboratory**
Lab Director: Professor Xingquan Zhu
e-mail Xingquan.Zhu@uts.edu.au

**Decision Systems and e-Service Intelligence Laboratory**
Lab Director: Professor Jie Lu
e-mail Jie.Lu@uts.edu.au

**Knowledge Infrastructure Enhancement Laboratory**
Lab Director: Dr Paul Kennedy
e-mail Paul.Kennedy@uts.edu.au

**Innovation and Enterprise Research Laboratory**
Lab Director: Professor Mary-Anne Williams
e-mail Mary-anne.Williams@uts.edu.au
Information for students

City campus
Building 10 Student Centre
Foyer, Level 2, Building 10 (CB10.2)
235 Jones Street, Ultimo
telephone +61 2 9514 1222

Kuring-gai campus
Kuring-gai Student Centre
Foyer, Level 5, Building 1 (KG01.05)
Eton Rd, Lindfield
telephone +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Opening hours
UTS Student Centre opening hours are available at:
www.uts.edu.au/students/centres.html

Faculty policies and procedures

NSW child protection legislation
Full details are provided in the NSW child protection legislation (see page 25) section in the University-wide general information.

Student administration matters
A range of student administration matters affect the progress of students through their studies. These are formally handled by the Student Administration Unit of the University.

The University’s web enrolment system, through which students add and withdraw from subjects, allocate themselves to classes, update their contact details and access their complete study plan and subject results, may be accessed through My Student Admin at:
www.uts.edu.au/onestop/studentadmin

Enrolled students are advised to refer to this website for their current personal and enrolment details.

A range of forms for various student administration matters can be obtained at:
www.sau.uts.edu.au/forms

They can also be obtained from the UTS Student Centres. These forms include applications for:
- credit recognition
- leave of absence, and
- course withdrawal.

Further information is available from the Student Administration Unit at:
www.sau.uts.edu.au

Submission of assignments

Nursing, midwifery and health
All assignments must be submitted by 4pm on the due date by being:
- placed in the Kuring-gai campus assignment box outside the academic programs office on level 3, Building 5, or
- placed in the City campus assignment box on level 7, Building 10, near the Wattle Street lifts. Students are able to access this area via the lifts 7am–10pm Monday to Friday. On weekends contact UTS Security to arrange access.

Human movement and sport and exercise management
All assignments must be submitted by 5pm on the due date by being:
- placed in the Kuring-gai campus assignment box on level 6 near room KG01.06.07.
- placed in the City campus assignment box on level 7, Building 10, near the Wattle Street lifts. Students are able to access this area via the lifts 7am–10pm Monday to Friday. On weekends contact UTS Security to arrange access.

All assignments must be accompanied by an assignment cover sheet, which can be downloaded from:
www.nmh.uts.edu.au/students/current/documents-policies

Do not use plastic folders or sleeves when lodging assignments.

Extensions
Applications for an extension of time for the completion of assignments must be made in writing on the appropriate form:
www.nmh.uts.edu.au/students/current/documents-policies

Extensions can only be granted by subject examiners or their nominees.

Generally, an extension is only granted in the case of verifiable medical grounds or other serious matters.

Good academic practice
Students are advised to read the Advice to Students on Good Academic Practice policy available at:
www.gsu.uts.edu.au/policies/academicpractice.html

Referencing procedures
To assist students with planning, researching, writing and submitting assignments, UTS: Health has published referencing procedures in undergraduate and postgraduate style manuals. Students attempting written assignments are strongly recommended to refer to this document, which clearly outlines the expectations in regard to academic writing. This publication is available under ‘Style and referencing guides’ at:
www.nmh.uts.edu.au/students/current/documents-policies

Academic misconduct
Both the University and UTS: Health view the academic conduct of students very seriously. Students must ensure that they conduct themselves in a professional manner, and observe the various rules and policies at all times.

In those instances where a student breaches academic conduct, the rules relating to academic misconduct are strictly observed. Breaches can include cheating in an examination or a class test and not acknowledging the work of others (plagiarism).

Plagiarism
Plagiarism refers to the practice of using someone else’s ideas or work and presenting them as one’s own without acknowledgment. Plagiarism is literary or intellectual theft. It can take a number of forms, including:
- copying the work of another student, whether that student is in the same class, from a previous year of the same course, or from another tertiary institution
- copying any section, no matter how brief, from a book, a journal article, the internet or another written source, without duly acknowledging it as a quotation
- copying any diagram, illustration or chart without duly acknowledging the source
- paraphrasing or otherwise using the ideas of another author without duly acknowledging the source, and
- presenting an assignment written by another student as your own work.

Whatever the form, plagiarism is unacceptable both academically and professionally. By plagiarising you are both stealing the work of another person and cheating by representing it as your own. Any incident of plagiarism can therefore be expected to attract severe penalties.

Students who condone plagiarism by allowing their work to be copied are also subject to disciplinary action. If students are in any doubt about plagiarism they should discuss the matter with the subject examiner or their tutor.

Note: The above provisions are drawn in part from the Faculty of Business Guidelines for the Preparation and Presentation of Assessed Work, February 1998.

Misconduct provisions
The provisions relating to academic misconduct are designed to ensure fairness in the process, as well as allowing such issues to be investigated effectively.
The rules relating to academic misconduct, discipline and appeals for students can be found at: www.gsu.uts.edu.au/rules

Laboratories
Nursing, midwifery and health
Nursing, midwifery and health laboratory staff are based in room KG02.3.51 and CB10.6.212 respectively, but can often be located in the laboratories situated at Kuring-gai campus in rooms 2.3.46, 2.3.49, 2.3.56, 2.3.60, 2.2.53, 2.2.56, and 2.2.62, and at City campus in rooms 10.6.206, 10.6.208, 10.6.209, 10.6.210, 10.6.214, 10.6.216, 10.6.219, 10.6.220, 10.6.221, 10.6.222, 10.6.224 and 10.6.225.

The laboratories also offer the following:
• equipment and posters may be borrowed for presentations or tutorials
• videos may be viewed in the laboratory area
• textbooks are available for quick referencing.

Laboratories at Kuring-gai and City campuses are made available throughout the semester for students to practice learnt procedures.

Laboratory rules and safety
Students have a duty of care to themselves and others, and must cooperate and observe the following points when in the laboratories:
• For safety reasons, a maximum of 15 students is allowed in the practice lab at a time. The faculty recognises that there may be peak times, such as prior to examinations, when more practice capacity is required. Should this occur, additional labs may be made available for practice.
• Students must comply with all laboratory safety rules while in the labs. In particular, no food, drink or children are allowed in the laboratories, and covered shoes must be worn at all times.
• All problems must be reported to the relevant technical officer.
• Should the use of the practice lab be abused in any way, UTS: Health will review its operation.

Human movement and sport and exercise management
The Human Movement and Sport and Exercise Management courses utilise laboratories located at Kuring-gai campus in rooms 1.607a, 1.607b, 3.601 and 3.403. These spaces are used for undergraduate teaching and postgraduate research.

Laboratory rules and safety
Students have a duty of care to themselves and others, and must cooperate and observe the following points when in the laboratories:
• Students must comply with all laboratory safety rules while in the labs. In particular, no food, drink or children are allowed in the laboratories, and covered shoes must be worn at all times.
• All equipment in the laboratories must be treated with respect. Any equipment malfunctions or technical issues should be reported immediately to academic staff and/or the technical officer.
• Where appropriate, subject outlines contain specific safety information and procedures that must be adhered to during classes.

Faculty centres and clinical professorships
UTS: Health has three centres and seven clinical professorships. The centres coordinate a range of international, educational, contract research, consultancy and continuing professional education activities on behalf of UTS: Health. The clinical professorships, which are each established under the sponsorship of an industry partner, are the primary locations of UTS: Health’s research activities, particularly as they relate to practice development.

Centre for Health Services Management
Professor Christine Duffield (Director)
UTS Building 10, Jones St, Ultimo

Centre for Midwifery, Child and Family Health
Professor Caroline Homer (Director)
UTS Building 10, Jones St, Ultimo

Centre for Cardiovascular and Chronic Care
Professor Patricia Davidson (Director)
UTS Building 10, Jones St, Ultimo

UTS Student Centres
The UTS Student Centres are both the initial and primary point of contact for all students. Students should deal with the student centres in all matters affecting their studies. This includes enrolment, exemptions, timetable matters, examination and assessment, as well as a wide range of student administration procedures.

For specific UTS: Health information, students should contact the following UTS Student Centres.

City campus
Building 10 Student Centre
Foyer, Level 2, Building 10 (CB10.2)
235 Jones Street, Ultimo
telephone +61 2 9514 1222

Kuring-gai campus
Kuring-gai Student Centre
Foyer, Level 5, Building 1 (KG01.5)
Eton Rd, Lindfield
telephone +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Opening hours
UTS Student Centre opening hours are available at: www.uts.edu.au/students/centres.html

World Health Organization Collaborating Centre for Nursing, Midwifery and Health Development
Professor John Daly (Director)
UTS Building 10, Jones St, Ultimo

Critical Care Nursing
Professor Sharon McKinley
Royal North Shore Hospital
Northern Sydney Local Health District

Child and Adolescent Nursing
Professor Jackie Crisp
Sydney Children’s Hospital
South Eastern Sydney and Illawarra Area Health Service

Health and Ageing Research
Professor Lynn Chenoweth
War Memorial Hospital
South Eastern Sydney and Illawarra Area Health Service

Mental Health Nursing
Professor Jane Stein-Parbury
St George Hospital and Community Services
South Eastern Sydney and Illawarra Area Health Service

Midwifery
Royal North Shore Hospital
Northern Sydney Local Health District

Nursing Research and Practice Development
Professor Val Wilson
The Children’s Hospital at Westmead

Tresillian Chair in Child and Family Health Nursing
Professor Catherine Fowler
Tresillian Family Care Centres

Undergraduate course information

Contacts and inquiries
Clinical Practice Unit

The Clinical Practice Unit manages student placements for clinical by requesting and securing placements in over 100 health facilities and placing students in over 5500 individual clinical settings each year. Students who have issues regarding their clinical placement or while they are on clinical should contact the unit on:

- Telephone: +61 2 9514 5122
- Email: nmh.clinical.practice@uts.edu.au

Laboratories technical officers

Laboratories technical officers maintain UTS: Health’s laboratories and other student technical resources. Bookings for and queries about the laboratories and resources, as well as queries regarding safety issues, should be directed to:

- Jenny Keller
  - Phone: +61 2 9514 5187
  - Email: nmh.clinical.practice@uts.edu.au

Academic liaison officer

The academic liaison officer provides advice on alternative assessment to students with short or long-term disabilities, have carer responsibilities, who are pregnant or have English language difficulties.

- Fran Rogan
  - Phone: +61 2 9514 4576
  - Email: nmh.clinical.practice@uts.edu.au

Academic programs officers

Academic programs officers maintain UTS: Health’s courses and specific student issues and processes. Students must contact the UTS Student Centre in the first instance and complex issues may be referred by staff in the UTS Student Centre to the Academic Programs Office.

- Manager
  - Thushita Perera
  - Phone: +61 2 9514 5024
  - Email: nmh.clinical.practice@uts.edu.au

- Subject logistics officer
  - Sarah Jeffers
  - Phone: +61 2 9514 5128

Senior academic programs officer

- Josefina Musa
  - Phone: +61 2 9514 5073

Director of Undergraduate Nursing Studies

The director provides academic advice to nursing students on their program and other assistance such as helping students who experience difficulties coping with their academic work.

- Aileen Wylie
  - Phone: +61 2 9514 5154

Director of Midwifery Studies

The director provides academic advice to midwifery students on their program and other assistance such as helping students who experience difficulties coping with their academic work.

- Athena Sheehan
  - Phone: +61 2 9514 4576

Director of Academic Liaison

The Academic Liaison Officer is responsible for the overseeing and quality of academic activities and the coursework programs.

- Fran Rogan
  - Phone: +61 2 9514 4576

Associate Dean

The associate dean is responsible for the overseeing and quality of academic activities and the coursework programs.

- Joanne Gray
  - Phone: +61 2 9514 4790

Faculty rules

Attendance

For students admitted into the Kuring-gai intake of the Bachelor of Nursing (C10122) (see page 173), most subjects are taught at Kuring-gai campus, however, students are required to attend City campus for Science subjects one day per week. For students admitted into the City intake of the Bachelor of Nursing (C10122) (see page 173), all subjects are taught at City campus in the first and second year of the program. The third year of the program is currently taught at the Kuring-gai campus with limited on-campus attendance. For students admitted into the Bachelor of Nursing Bachelor of Arts in International Studies (C10123) (see page 178), most subjects are taught at City campus. For students admitted into the Bachelor of Midwifery (C10225) (see page 230), all subjects are taught at City campus.

Class allocation

Students are allocated to particular groups or classes within a subject. This class determines when they attend laboratory sessions as well as tutorial times. Students must state their preferences for classes at enrolment. Students are allocated to classes and may then make changes to their allocation (subject to available places). Further information on this process is available from My Subject Activities at: www.uts.edu.au/onestop/studentadmin

Some class changes may be limited by nursing practice restrictions in some years of the undergraduate courses, or by cohort management.

Nursing and Midwifery Board of Australia registration

The Bachelor of Nursing, Bachelor of Nursing Bachelor of Arts in International Studies and Bachelor of Midwifery are accredited by the Nursing and Midwifery Board of Australia. Graduates are eligible to apply for registration as a Registered Nurse or Midwife. In addition, for registration eligibility, the Nursing and Midwifery Board of Australia requires applicants to provide evidence of identity and good character, and documented evidence for assessment of any variation to the standard education program, for example credit recognition. Detailed information is available at: www.nursingmidwiferyboard.gov.au

Clinical placements

Note: Nursing and midwifery clinical ladders are available as downloadable PDFs from the online UTS: Handbook at: www.handbook.uts.edu.au/nmh/

Nursing practice policy

As part of their studies, students are required to undertake clinical practice in a variety of health facilities. This involves students being placed in a clinical environment in accordance with the nursing clinical ladder (see online handbook). Students are accompanied by a clinical facilitator or allocated an academic liaison officer who supports their clinical learning and undertakes their assessment.

UTS: Health makes every effort to place students in a health facility in close proximity to their home or close to public transport. However, this is often very difficult to achieve given the limited number of student placements, and students are asked to take this into consideration when they receive notification of their placement. Students with special needs may make a request to be placed in a particular health facility, following discussions with the subject coordinator, by emailing the Clinical Practice Unit.

- Email: nmh.clinical.practice@uts.edu.au
Midwifery practice policy
As part of their studies, students are required to undertake clinical practice. This involves students being placed in a midwifery practice environment in accordance with the midwifery practice ladder (see online handbook). Students are supported by a midwifery practice facilitator or midwifery educator. UTS: Health makes every effort to place students in a health facility in close proximity to their home and close to public transport. However, this is often very difficult to achieve given the limited number of student placements, and students are asked to take this into consideration when they receive notification of their placement. Students are required to complete a request form in the first week of semester to identify their preferences.

Students with disabilities
Students in the Bachelor of Nursing, the Bachelor of Nursing Bachelor of Arts in International Studies, or the Bachelor of Midwifery must undertake nursing and/or midwifery practice placements as a prerequisite to satisfactory course completion. Information regarding the practice placement procedures for students with disabilities is available from special needs (see page 34) in the University-wide general information.

Accident and incident reporting
Any student or staff member involved in an accident, injury or incident while on clinical placement must complete a standard accident/incident form, available from their facilitator, midwifery educator or academic liaison officer. Completed forms should be forwarded to the academic clinical advisor for nursing and midwifery students. This form is to be completed in addition to any forms which the health facility requires.

The subject coordinator should also be notified immediately of any injury, accident or incident which requires medical attention.

If an injury sustained by a student raises doubts about the student’s ability to attend subsequent nursing or midwifery practice experiences, the matter should be referred to the Director of Studies, Undergraduate for nursing students or the Director of Midwifery for midwifery students.

Attendance
The Nursing and Midwifery Board of Australia requires students to undertake a specified number of nursing or midwifery practice hours. One hundred per cent attendance on practice is required. Only cases of documented illness or misadventure, as per UTS rule 8.3, are accepted as a reason for not undertaking all nursing or midwifery practice hours. In the event of illness or misadventure, students must notify their clinical facilitator, midwifery educator or academic liaison officer, the relevant health facility and the Clinical Practice Unit:

telephone +61 2 9514 5122
email nmh.clinical.practice@uts.edu.au

Students in this category may then be offered completion of nursing or midwifery practice hours. In the event of illness or misadventure, students must notify their clinical facilitator, midwifery educator or academic liaison officer, the relevant health facility and the Clinical Practice Unit:

Students are required to attend designated shifts while on nursing practice. Shift times vary between facilities, however, common start times are 7am and 1.30pm. Students with carer responsibilities should ask for a document from a UTS Student Centre which outlines issues that students may face.

Completion of nursing or midwifery practice
When assessing whether students are eligible to undertake additional hours to complete their nursing or midwifery practice, the Faculty of Health examines a student’s nursing or midwifery practice history, taking into account past attendance as well as the requirements of the Nursing and Midwifery Board of Australia. Therefore, it is in the interests of students to ensure that they maintain a complete attendance record.

As indicated above, students may not be given the opportunity to complete missed nursing practice hours and consequently may fail the subject.

Conduct
Students undertaking supervised nursing or midwifery practice must follow the directions given to them by their facilitator, midwifery educator of academic liaison officer or, in the absence of these, the staff of the hospital or agency concerned. Students are reminded that they are required to adhere to clinical placement facility policy and procedures.

Safety
While on practice placement, all students are responsible for promoting and maintaining environmental health and safety (EHS) by:

• looking out for hazards, reporting them to the supervisor of the work area and helping to fix hazards;
• taking action to avoid, eliminate or minimise risks;
• following safe work methods and using personal protective equipment as required;
• seeking information or advice as necessary, particularly before carrying out new or unfamiliar work;
• participating in orientation activities;
• reporting accidents and incidents to the supervisor of the work area;
• reporting emergencies in line with the facility protocols;
• disposing of any hazardous wastes in a safe and approved manner;
• not willfully placing at risk the health, safety and welfare of others;
• exercising a duty of care toward others in everything undertaken.

All students must be aware of risk management policies and processes and be capable of implementing these within the clinical environments. Students must also comply with the policies and procedures of the relevant health facility.

Pregnancy on clinical placements
Pregnancy does not preclude students from clinical practice however some clinical placements may be potentially harmful to the developing foetus and to the student. Pregnant students are expected to notify the Faculty of Health of their pregnancy if they are working or studying in areas where there may be particular health and safety issues, e.g. radiation, working with infectious disease, cytotoxic drugs or anaesthetic gases. Students who are pregnant and in their third trimester of pregnancy, or within the first six months of being postnatal, must have the written permission of the Director of Undergraduate Nursing Studies to attend clinical placements. Students must also comply with health care facilities’ guidelines and recommendations when undertaking placements.

Student wellbeing advice
All students involved in clinical placements must be fit to do so. Students who have health problems or who are under the influence of alcohol and/or other drugs that might foreseeably render them unsafe during nursing or midwifery practice placement, or who have a health problem that may be adversely affected during their placements, should seek medical advice before undertaking a placement and should advise their subject coordinator.

Failure to do so may result in the Faculty of Health accepting no responsibility for the consequences.

Each student is responsible for evaluating the foreseeable health risks before and during each clinical placement, and implementing risk management strategies in consultation with the subject coordinator, and UTS environmental, health and safety guidelines. Students must also adhere to policies and direction from workplaces where the clinical placement is held.

Uniform
Students are required to wear the official uniform of the Faculty of Health during all nursing and midwifery practice placements. Academic staff will indicate any other occasions when students must wear their uniform. Some nursing practice placements, e.g. mental health, may not require the official uniform. Students are notified of this when they receive their practice placements. Students must purchase their uniform from the approved suppliers.

The uniform consists of:

• purple polo shirt; UTS design (men and women);
• black trousers; UTS design (men and women);
• black knee-length skirt; UTS design (to be worn with stockings);
• black, closed in rubber-soled shoes.

Other requirements are as follows.

• Fingernails must be short and clean. Only clear nail varnish is acceptable.
• False nails must be permanent, not require any infill, and be black, closed in rubber-soled shoes.
• Hair must be worn off collars. Students with long hair must wear it up; long ponytails are not acceptable.
• Students are permitted to wear a wedding ring and one pair of stud earrings.

75
• Watches should either be digital or have a second hand, and must have no sharp edges, fancy watchbands or large buckles. A multicoloured ballpoint pen and small notepad are essential requirements. A small pocket calculator is advisable.

• Academic staff will provide advice to students on other items which need to be purchased, e.g. fol watch, stethoscope, scissors.

• Students must wear the uniform from their first nursing or midwifery practice placement in Autumn semester and should ensure that their uniform is available by this time.

• All students must wear their UTS photo identification card, with retractable cord, at all times near their collar; this is available from the Co-op Bookshop for a nominal fee.

Immunisation
UTS is committed to the health, welfare and safety of its students and staff. The following guidelines have been set up in order to ensure legislative requirements are adhered to, along with minimising infectious disease transmission to and / or from our students and staff.

All students and staff must adhere to current legislative requirements, policies and procedures regarding infection control and immunisation. Students should be aware of guidelines regarding immunisations and levels of required immunity, as indicated within these guidelines. At the time this policy was developed, guidelines assisting in the direction of this policy included:

• National Health and Medical Research Council (2003), The Australian Immunisation Handbook, 8th edn, Commonwealth of Australia, Canberra.


Documentary evidence of vaccination and / or current immunity for the following diseases (completed record card plus serology) prior to clinical placement is mandatory:

• Adult Diptheria, Tetanus and Pertussis

• Hepatitis B

• Measles / Mumps / Rubella

• Varicella (chickenpox)

• Tuberculosis

• Hepatitis A

• Influenza (optional).

Students must carry their updated and current vaccination screening record card plus serology with them at all times while on clinical practice and will be required to show evidence of both. Students must meet immunisation requirements of each placement they attend. Students unable to show their immunisation status will be asked to leave the placement.

Acceptable immunisation status is a prerequisite for attending clinical placements, due to legislative and organisational requirements. Health facilities have the right to preclude students who are not immunised in accordance with their policies. There are academic progress implications for students who fail to complete practice requirements for this reason.

Students who are unable to complete vaccination requirements for any reason (including conscientious objection) must request authorisation through the academic clinical advisor at least four weeks prior to every clinical placement. In most cases authorisation will be denied due to external organisation policies and requirements. Students who are unable to meet immunisation requirements will significantly impact their ability to complete their course.

Criminal record checks
Full details are provided in the NSW child protection legislation (see page 25) section in the University-wide general information.

Unsafe practice performance
A student's performance is deemed unsafe if it places patients, clients, their families, staff members or fellow students at risk, and if he or she is unable or unwilling to perceive that risk. The judgment that a student’s performance is unsafe is usually made on the basis of more than one incident, however, it can be made on the basis of one episode. Students whose performance is deemed unsafe are removed from the health facility as soon as the judgment is made and are referred to the subject coordinator, who determines the appropriate course of action. Students may receive a fail grade for the subject, or be given an opportunity to demonstrate improvement in an alternative clinical environment such as the laboratory. If satisfactory, students are given another opportunity to complete their nursing or midwifery practice in a clinical environment.

Refer to rule 16.10.

Unsatisfactory practice performance
A student’s performance is deemed unsatisfactory if it fails to meet the objectives and assessment of a given nursing practice experience.

Each student has a formative assessment part-way through his or her clinical placement. If unsatisfactory performance is identified in this assessment, the clinical facilitator / midwifery educator / academic liaison officer notifies the student and identifies a plan of action. This includes major areas of improvement and specific aims to be met to achieve satisfactory performance. If the student and / or the clinical facilitator / midwifery educator / academic liaison officer have reason to believe that they cannot work together to implement the improvement plan, a request can be made by either person to the subject coordinator for alternative arrangements. Each student receives a summative assessment towards the end of her or his clinical placement, which is assessed as either overall satisfactory or unsatisfactory.

The following diagram demonstrates the process for clinical subject assessment.
Administering of intravenous medications while on clinical practice

Third-year Bachelor of Nursing students are permitted to administer intravenous medications only under the following conditions:
- under direct supervision of a registered nurse (including University clinical supervisors) accredited by the hospital to administer intravenous medications as long as all other medication requirements have been met, e.g. correct dose, patient, route, time, and written orders, etc., and
- hospital policy allows students to administer intravenous medications under the direct supervision of a registered nurse as set out above.

Postgraduate course information

UTS: Health's postgraduate programs aim to ensure that opportunities are provided for nurses, midwives and health services managers to study at graduate level, whether they were educated in hospitals or the higher education sector. Enrolment in a postgraduate program provides an opportunity to study within a challenging and stimulating environment. Postgraduate nursing, midwifery and health services management programs provide the scope for health professionals to strengthen and expand their knowledge in their disciplines while also encouraging study and research in specialised areas.

Two categories of postgraduate courses are offered – those by coursework and those by research.

Contacts and inquiries

UTS Student Centres

The UTS Student Centres are both the initial and primary point of contact for all students. Students should deal with the UTS Student Centres in all matters affecting their studies, including enrolment, exemptions, timetable matters, examination and assessment, as well as a wide range of student administration procedures.

For specific UTS: Health information, students should contact the following UTS Student Centres.

City campus
Building 10 Student Centre
Foyer, Level 2, Building 10 (CB10.2)
235 Jones Street, Ultimo
telephone +61 2 9514 1222
Kuring-gai campus
Kuring-gai Student Centre
Foyer, Level 5, Building 1 (KG01.5)
Eton Rd, Lindfield
telephone +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Opening hours
UTS Student Centre opening hours are available at: www.uts.edu.au/students/centres.html

Academic Programs Office

The Academic Programs Office provides support and assistance to the UTS Student Centres in regard to UTS: Health processes and issues, and manages and supports UTS: Health's courses and specific student issues and processes. Students must contact the UTS Student Centre and complex issues may be referred by staff in the UTS Student Centre to the Academic Programs Office.

Manager
Thushitha Perera
KG05.03.06
telephone +61 2 9514 5024

Subject logistics officer
Sarah Jeffers
KG05.03.08
telephone +61 2 9514 5128

Senior academic programs officer
Josefina Musa
KG05.03.07
telephone +61 2 9514 5073

Academic programs officers
Elaine Pereira
KG05.03.05
telephone +61 2 9514 5722
Tamsin Howse
KG05.03.96
telephone +61 2 9514 5202

Research administrator
The research administrator provides administrative advice and support to current and prospective research students.

telephone +61 2 9514 4879
email rnmhresearch@uts.edu.au

Postgraduate coursework

Postgraduate coursework rules and procedures

Admission requirements

Where large numbers of applicants are eligible for admission to any of UTS: Health's courses and places are limited, preference is given on the basis of:
- general educational qualifications
- previous academic grades, and
- professional experience and activities, e.g. post-registration certificates and scholarly activities such as research and publications.

Credit recognition

Subject exemptions are granted on the basis of the successful completion of equivalent subjects from recent postgraduate studies. Students should lodge an application for credit recognition and include a formal transcript verifying academic results and a description of the subject for which they are claiming equivalence. For detailed information about applying for subject exemptions, read the Credit Recognition Application Guidelines (27kB PDF):

UTS: Health may also grant credit by substitution. This involves students being able to substitute a prescribed subject where they can demonstrate that they have undertaken an equivalent subject at either postgraduate or, in exceptional circumstances, undergraduate level.

The maximum number of exemptions under UTS: Health policy are:
- graduate certificates: maximum of two exemptions (12 credit points)
- graduate diplomas: maximum of four exemptions (24 credit points)
- master's: maximum of eight exemptions (48 credit points)
- master's conversions: students must complete a minimum of four subjects.

Rules and regulations

All students should refer to the Rules of the University available at: www.gsu.uts.edu.au/rules

Progression rules

A student will have their registration discontinued, in accordance with rule 10.2.3 and rule 10.4.1, if they fail more than 50 per cent of the total number of enrolled subjects in an assessment period, or fail to meet any concurrent experience or other requirement prescribed by the course over a two-year period.

Contacts and inquiries

The directors of studies, course coordinators and advisers provide academic advice to students on their program, or other assistance such as helping students experiencing difficulties to cope with their academic work.

Director of Postgraduate Nursing Studies
Cheryl Waters
KG05.2.19
telephone +61 2 9514 5741

Director of Midwifery Studies
Athena Sheehan
CB10.7.248
telephone +61 2 9514 4576
Director of Health Services Management Programs
Jennifer Bichel-Findlay
CB10.7.204
telephone +61 2 9514 4551

Nursing
Master of Nursing (Education major and Advanced Nursing Practice major)
Cheryl Waters
KG05.2.19
telephone +61 2 9514 5741
Master of Nursing (Nurse Practitioner major)
Irene Kopp
KG05.2.5
telephone +61 2 9514 5760
Graduate Diploma in Nursing
Cheryl Waters
KG05.2.19
telephone +61 2 9514 5741
Graduate Certificate in Perioperative Nursing
Graduate Certificate in Anaesthetics Nursing
Marika Jenkins
KG5.2.18
telephone +61 2 9514 5760
Graduate Certificate in Critical Care Nursing
Cheryl Waters
KG05.2.19
telephone +61 2 9514 5741
Graduate Certificate in Neuroscience Nursing
Jacqueline Baker
KG05.2.08
telephone +61 2 9514 5072
Graduate Certificate in Children’s Nursing
Janet Green
KG05.2.97
telephone +61 2 9514 5740
Graduate Certificate in Child and Family Health Nursing
Nicola Brown
CB10.7.207
telephone +61 2 9514 4915
Graduate Certificate in Acute Care Nursing
Michelle Kelly
CB10.7.221
telephone +61 2 9514 4815
Graduate Certificate in Mental Health Nursing
Kevin Kellehear
KG05.2.09
telephone +61 2 9514 5055
Graduate Certificate in Neonatal Nursing
Janet Green
KG05.2.97
telephone +61 2 9514 5740

Midwifery
Master of Midwifery
Maralyn Foureur
CB10.7.252
telephone +61 2 9514 4914
Graduate Diploma in Midwifery
Allison Cummins
CB10.7.256
telephone +61 2 9514 4913

Clinical education and management
Graduate Certificate in Clinical Teaching
Janet Green
KG05.2.97
telephone +61 2 9514 5740

Graduate Certificate in Clinical Management
Jennifer Bichel-Findlay
CB10.7.204
telephone +61 2 9514 4551

Health
Graduate Certificate in Diabetes Education and Management
Julie Bligh
KG05.2.04
telephone +61 2 9514 5715

Health services
Master of Health Services Management
Master of Health Services Management and Planning
Graduate Diploma in Health Services Management
Graduate Certificate in Health Services Management
Jennifer Bichel-Findlay
CB10.7.204
telephone +61 2 9514 4551

Associate Dean (Teaching and Learning)
Responsible for the overseeing and quality of academic activities and all coursework programs.
Joanne Gray
CB10.7.290
telephone +61 2 9514 4790

Postgraduate research
UTS: Health offers the following research degrees at master’s and doctoral levels:

- Master of Nursing (Research) (C03048) (see page 493)
- Master of Midwifery (Research) (C03049) (see page 494)
- Master of Health Services (Research) (C03050) (see page 494)
- Doctor of Nursing (professional doctorate) (C02052) (see page 482)
- Doctor of Midwifery (professional doctorate) (C02053) (see page 483)
- Doctor of Health Services (professional doctorate) (C02054) (see page 484)
- Doctor of Philosophy (PhD) (C02024) (see page 474)

All research degrees require the independent preparation of a thesis that makes an original contribution to knowledge. The master's (honours) and professional doctorate degrees include required coursework in addition to the preparation of a thesis.

University rules and procedures for master’s students and doctoral students apply to all research students in UTS: Health (see section 11).

Applications for research degrees
Application forms for research degrees are obtained from the UTS: Graduate Research School. All requirements for documentation must be met when submitting the application. UTS: Health uses the University’s scoring system to assess applications. Applicants are assessed on the basis of a range of categories, such as academic qualifications, research publications and professional achievement. The minimum educational requirements must be met by each applicant as specified in the entry requirements for each degree. Applicants are required to have a research proposal and agreement of a suitable supervisor at the time of application. Applicants are also required to complete a supplementary form. More information is available at:

www.mnh.uts.edu.au/research/postgraduate/apply

International applicants are required to first contact UTS International on:
email international@uts.edu.au

Selection of supervisors
Research for a degree at doctoral and master’s level must lead to a distinct contribution to the knowledge of a subject by original investigation. This involves a considerable intellectual challenge and a substantial commitment over time and necessarily depends on the relationship between the candidate and his or her supervisors. For this reason careful thought should be given by the candidate and the proposed supervisor to the questions of personal compatibility and areas of common academic and professional interests. It is essential that the project be of direct interest to the supervisor and candidate and lie within the supervisor’s area of expertise.
For doctoral and master’s candidates there must be a principal supervisor and a panel of supervisors (which can be composed of the principal supervisor alone). The principal supervisor must be a member of UTS: Health academic staff, be a registered supervisor with the University and be eligible to supervise a candidate at the required level. A panel member (or alternate supervisor) may either be a member of UTS: Health academic staff or the University, or a person employed outside the University of recognised standing in the field of the candidate’s research. Supervisory panel members must be registered as a supervisor with the University. Supervisors of doctoral and master’s candidates are appointed by the UTS: Graduate Research School Board on the recommendation of the director of research.

The rules regarding the appointment of supervisors and the code of conduct for supervisors can be found at: www.gradschool.uts.edu.au

Regulations and responsibilities regarding supervision

While the student–supervisor relationship is a flexible one, the University requires supervisors to ensure by their advice, guidance and expertise that a particular candidate maintains satisfactory progress within the prescribed term of the candidature; that the candidate receives adequate advice both on the substance of the thesis and on the form its presentation will ultimately take; and that the work being done on the thesis is reviewed critically on a continuing basis. The way in which this is done is to be negotiated between the candidate and the supervisors.

The University acknowledges that research students have a right to effective supervision and research training. However, students have responsibilities as well in adhering to the University rules, in maintaining progress and in communicating with their supervisors.

The UTS: Graduate Research School Board has produced a Code of Conduct for Supervisors, Advisors and Research Degree Candidates, available at: www.gradschool.uts.edu.au

Research Student Symposium

The Research Student Symposia are held twice a year in June/July (Winter session) and December (Summer session). They are designed to facilitate a number of important requirements for UTS: Health’s research students and provide an opportunity for research students, supervisors, staff and invited guests to interact in formal and informal settings. The symposium incorporates student presentation, doctoral and master’s assessments (see below), plenary sessions from invited guests and workshops.

Requirements for research degree candidates

Research degree students have a number of University and faculty requirements that must be met in order to progress through the degree. Failure to meet these requirements can result in review or termination of the candidature. The Rules of the University relating to students are published at: www.gsu.uts.edu.au/rules

Students are expected to be aware of current rules and policies affecting their candidature and progression requirements. Students are required to provide current contact details and other relevant information to their supervisors, UTS: Health and the UTS: Graduate Research School. It is the candidate’s responsibility to inform their supervisors, UTS: Health and the UTS: Graduate Research School of changes in their contact details or circumstances that will affect their candidature.

Progress by semester

It is the responsibility of each student and supervisor to discuss, at the beginning of each semester, the progress anticipated throughout that semester. The initial consultation between candidate and supervisor should include the establishment of a form of agreement, or contract, which identifies certain minimum requirements for that semester. These consist of setting an agenda for regular contact; presenting in the Research Student Symposia and attending the presentations of others; identifying the criteria by which to judge the progress of the research being undertaken that semester; attending coursework subject sessions and successful completion of coursework (where appropriate); and the submission of semester progress reports.

Progress reports

It is a University requirement that all research students who are enrolled and are not on leave of absence or under examination for that semester complete and return a progress report for Autumn and Spring semesters (rule 11.13). Progress reports are sent to the student by the UTS: Graduate Research School and must be completed by the student and their supervisor and returned to UTS: Health by the due date. The faculty also requires students to complete the semester plan and report form, which must be submitted with the progress report.

Student presentation

Student presentations are held during Research Student Symposia weeks. It is a condition of candidature with UTS: Health that research degree candidates present at and attend Research Student Symposia at least once a year for part-time students and twice a year for full-time students. Candidates are not expected to present in the first semester of candidature. The presentation should relate to the student’s research, area of study or methodology. These workshops provide an ideal opportunity to obtain peer review, gain insight into other research being conducted, learn new methodologies being employed and form a network with peers and academic staff. The importance of these workshops to the academic development of research degree candidates should not be underestimated.

Doctoral and master’s assessment (confirmation of candidature)

It is a University requirement that all research degree students undertake a formal assessment during the early phase of their candidature. The assessment comprises an oral presentation (of up to 20 minutes) to a panel of assessors and the submission of written work (of up to 10,000 words).

The objectives of the assessment are to ensure that: candidates have the knowledge and skills to enable successful and timely completion of their research program; candidates who are not suited/equipped to work towards a research degree are made aware of this fact before they have invested considerable time and money; and that there is a commitment by the University through the supervisor and UTS: Health for the provision of sufficient human and physical resources to enable satisfactory completion of the research program.

Master’s and doctoral students are required to undertake assessment before or at the end of the first two semesters for full-time students and before or at the end of the first three semesters for part-time students. The assessment panel comprises the student’s principal supervisor, the co-supervisor (and panel if applicable), the chair of the panel (usually the responsible academic officer), and two external examiners, who are nominated by the candidate’s supervisors and approved by the responsible academic officer. Members and students of UTS: Health are also invited to attend as observers, but do not contribute towards the decision of the panel. After the assessment, the panel discusses the student’s presentation and work.

The student is informed of the panel’s determination verbally (if appropriate), or in a meeting with the chair, supervisors and student as soon as practical. The student will be informed of the panel’s decision by mail within two weeks of the assessment date and copies of the letter will be forwarded to the student’s supervisors and the UTS: Graduate Research School. Students who do not satisfy the requirements for the doctoral or master’s assessment will not be permitted to proceed with their candidature unless with the approval of the UTS Academic Board. Then, they will be invited to re-attempt the assessment six months after they have been notified in writing of the unsatisfactory outcome.

The written component of the assessment must be submitted to the research administrator no later than 14 working days before the assessment date.

The University policies and rules relating to doctoral and master’s assessment can be found at: www.gradschool.uts.edu.au

The Guidelines for Doctoral and Master’s Assessment (components and procedures) are available at: www.nmh.uts.edu.au/research/postgraduate/candidature/assessment.html

Submission of thesis

All research degree students are required to submit a thesis (or dissertation) to complete their program. The University has a number of rules and requirements for the submission of theses. The Rules of the University relating to thesis topics, the submission of theses and the examination of theses are published at: www.gsu.uts.edu.au/rules
The UTS: Graduate Research School also provides information on the requirements for thesis submission, which can be obtained from their website (www.gradschool.uts.edu.au).

It is a University requirement (rule 11.16) that candidates for doctoral degrees make an oral presentation of their work to a panel or audience. This must be completed within the six months prior to submission.

The examination process
Theses are examined by examiners (not including supervisors) who are appointed by the UTS: Graduate Research School Board following recommendation by UTS: Health. In the case of master’s students, at least one of the two examiners will be external to the University; for doctoral students at least two of the three examiners will be external to the University.

Candidates for a research degree may be required to undertake an oral defence of their thesis under such conditions as determined by the UTS: Graduate Research School Board.

Rules relating to the examination process are available at:
www.gsu.uts.edu.au/rules

Information for research degree students
Research degrees have specified maximum durations as described in the Rules of the University. Students can complete in less than the maximum time.

Maximum duration of candidature: master’s degrees
Full time = two years (four semesters)
Part time = four years (eight semesters)

Maximum duration of candidature: doctoral degrees (excluding PhD by publication)
Full time = four years (eight semesters)
Part time = eight years (16 semesters)

Maximum duration of candidature: doctoral degrees by publication
Full time = one year (two semesters)
These periods do not include periods of approved leave of absence (rule 11.9).

The maximum duration may only be extended with the approval of the UTS: Graduate Research School Board (rule 11.8).

Professional doctorate and master’s (honours) coursework
Coursework for professional doctorate students is typically undertaken in block sessions of three to six days. These blocks are typically held in February, July and December. Students are required to attend a block session for each subject in which they are enrolled for that semester.

Coursework for master’s (honours) students is typically undertaken in class sessions that run over three to six days during the semester. Students are required to attend the class sessions for each subject in which they are enrolled for that semester.

Intellectual property
UTS: Health has explicit guidelines relating to academic misconduct, including plagiarism. In brief, plagiarism is defined as any attempt to use the work of another person without acknowledging the source. For the purposes of this rule, ‘work’ is defined as written materials such as books, journals and magazine articles or other papers, and also includes films and computer programs.

At research level, students must exercise great care in acknowledging all material derived from any source; if in doubt students should consult their supervisor. Remember, even paraphrasing another person’s work is defined as ‘using’ that person’s work and must be acknowledged.

The penalties relating to a candidate found to have committed plagiarism are outlined in the UTS Rules.

Discontinuation or resolution of progress
Research degree students may have their registration discontinued if they fail to complete all prescribed work within a given period of time or if the UTS: Graduate Research School Board is dissatisfied with the student’s progress. The Rules of the University relating to discontinuation of candidature, appeal against discontinuation and results of appeals are rules 11.20–11.22.

Appeals
In cases of appeal, a Student Assessment Appeals Committee of the Faculty Board in Nursing, Midwifery and Health considers the appeal following the criteria and procedures approved by the Academic Board.

For a detailed explanation of the rights and procedures of appeals, candidates should consult the Rules of the University published at:
www.gsu.uts.edu.au/rules

Graduation
Research students should consult closely with their supervisor when anticipating graduation, as the assessment process for theses can be a time-consuming undertaking, and revisions are often required.

Graduation ceremonies are conducted during a specific period in April–May and September–October each year. Information regarding graduation will be forwarded to eligible students following the receipt of the final bound copies of the thesis.

Contacts and inquiries
Any inquiries of a non-administrative nature should, in the first instance, be directed through the student’s supervisors. If this is not possible, or is inappropriate, inquiries should be directed to the research administrator, relevant course coordinator or to the director of research.

Administrative inquiries should be directed to the research administrator.

Associate Dean (Research)
The director is responsible for the overall administration and quality of the research programs and chair of the Faculty Research Committee.

Professor Christine Duffield
CB10.7.213
telephone +61 2 9514 4832
email Christine.Duffield@uts.edu.au

Higher degree research coordinator and responsible academic officer
The coordinator is responsible for the administration and quality of the higher degrees research.

Associate Professor Marg Fry
CB10.7.210
telephone +61 2 9514 4826
email Margaret.Fry@uts.edu.au

Master’s and honours courses coordinator
The coordinator is responsible for the administration and quality of the master’s and honours research programs.

Associate Professor Marg Fry
telephone +61 2 9514 4826
email Margaret.Fry@uts.edu.au

Bachelor (Honours) courses coordinator
Associate Professor Robyn Gallagher
CB10.7.214
telephone +61 2 9514 4833
email Robyn.Gallagher@uts.edu.au

Research administrator
The research administrator provides administrative support to all UTS: Health research students, including application, enrolment, progression and examination processes.

telephone +61 2 9514 4879
email rmresearch@uts.edu.au

The UTS: Graduate Research School is responsible for the overall administration and management of research degree candidates.

CB01.7
telephone +61 2 9514 1336
eemail ugs@uts.edu.au

www.gradschool.uts.edu.au

80
UTS: INFORMATION TECHNOLOGY

Information for students

The Faculty of Engineering and Information Technology (FEIT) is Australia’s leader in practice-based engineering and IT education and research, and currently enrolls over 7000 students in industry-recognised courses from undergraduate to doctoral level.

The faculty prides itself on its high level of engagement with the engineering and IT professions locally and internationally, by offering short courses and consulting expertise to the local community, and internationally through its courses offered in Hong Kong and Singapore, a significant local international student population and a robust student exchange program. FEIT is also the leading research faculty at UTS, with a diverse range of research being undertaken in matrix across the faculty’s twelve research centres and institutes, and five academic schools.

The faculty structure comprises four portfolio areas in teaching and learning; research and development; international; and external engagement, each led by an associate dean. Five schools house the academic sub-disciplines of the Faculty of Engineering and Information Technology:

- School of Civil and Environmental Engineering
- School of Computing and Communications
- School of Electrical, Mechanical and Mechatronic Systems
- School of Software
- School of Systems, Management and Leadership

Location, contacts and inquiries

The Faculty of Engineering and Information Technology is located at City campus, Broadway, in Buildings 1, 2 and 10. Key staff are:

Professor Hung Nguyen
Dean
telephone +61 2 9514 4441
email Hung.Nguyen@uts.edu.au

Dr Tim Aubrey
Associate Dean (Teaching and Learning)
telephone +61 2 9514 2360
e-mail Tim.Aubrey@uts.edu.au

Professor Mary-Anne Williams
Associate Dean (Research and Development)
telephone +61 2 9514 2451
email Mary-Anne.Williams@uts.edu.au

Professor Deepak Sharma
Associate Dean (International)
telephone +61 2 9514 2422
email Deepak.Sharma@uts.edu.au

Professor Keith Crews
Associate Dean (External Engagement)
telephone +61 2 9514 2619
email Keith.Crews@uts.edu.au

Professor Bijan Samali
Head, School of Civil and Environmental Engineering
telephone +61 2 9514 2023
email Bijan.Samali@uts.edu.au

Professor Doan Hoang
Head, School of Computing and Communications
telephone +61 2 9514 7943
email Doan.Hoang@uts.edu.au

Professor Jianguo (Joe) Zhu
Head, School of Electrical, Mechanical and Mechatronic Systems
telephone +61 2 9514 2318
email Jianguo.Zhu@uts.edu.au

Professor Jie Lu
Head, School of Software
telephone +61 2 9514 1838
email Jie.Lu@uts.edu.au

Professor Igor Hawryszkiewycz
Head, School of Systems, Management and Leadership
telephone +61 2 9514 1809
email Igor.Hawryszkiewycz@uts.edu.au

Annette Giles
Faculty Manager
telephone +61 2 9514 4443
e-mail Annette.Giles@uts.edu.au

Engineering and Information Technology Outreach Office

The Engineering and Information Technology Outreach Office manages all faculty marketing activities and school liaison. It is located at CB02.4.16. This connects with Building 1 at City campus, Broadway. The office is generally open from 9am–5pm Monday to Friday.
telephone +61 2 9514 2666
fax +61 2 9514 7903
email it@uts.edu.au
www.it.uts.edu.au

Postal address

Faculty of Engineering and Information Technology
University of Technology, Sydney
PO Box 123
Broadway NSW 2007

UTS Student Centres

All inquiries from currently enrolled UTS students are handled by the five UTS Student Centres located across the City (Broadway and Haymarket) and Kuring-gai campuses.

Students enrolled in UTS: Information Technology degrees (undergraduate and postgraduate) are advised to direct all their course-related inquiries to:

Building 10 Student Centre
CB10.2 (City campus, Broadway, Building 10, level 2, foyer)
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Key student liaison staff

The staff below are the key liaison staff for engineering and information technology students requiring specialist or academic advice to manage their enrolment and student candidature. All students are to direct all initial inquiries to the UTS Student Centre where their inquiry will be processed and forwarded to the key contact staff below only if the matter cannot be resolved by Student Centre staff. An appointment with these staff is based on referral from the UTS Student Centres or within staff consultation times.

Dr Rob Jarman
Director, Undergraduate Programs: UTS: Engineering
telephone +61 2 9514 2368
email Rob.Jarman@uts.edu.au

Dr Prasanthi Hagare
Director, Postgraduate Coursework Programs: UTS: Engineering
telephone +61 2 9514 1952
email Prasanthi.Hagare@uts.edu.au

Chris Wong
Director, Undergraduate Programs: UTS: Information Technology
telephone +61 2 9514 7938
email Chris.Wong@uts.edu.au

Mr Rene Leveaux
Postgraduate Coursework Programs: UTS: Information Technology
telephone +61 2 9514 1958
email Rene.Leveaux@uts.edu.au

Craig Shuard
Research Administration Officer
telephone +61 2 9514 4460
email Craig.Shuard@uts.edu.au

Phyllis Agius
Research Administration Officer
telephone +61 2 9514 2686
email Phyllis.Agius@uts.edu.au

Tracey Moore
Manager, Academic Programs Office
telephone +61 2 9514 2671
email Tracey.Moore@uts.edu.au

Ask UTS www.ask.uts.edu.au
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

UTS Student Centre
PO Box 123
Broadway NSW 2007

The office is generally open from 9am–5pm Monday to Friday.

The Engineering and Information Technology Outreach Office

The office is generally open from 9am–5pm Monday to Friday.

CB10.2 (City campus, Broadway, Building 10, level 2, foyer)
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
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Director, Undergraduate Programs: UTS: Engineering
telephone +61 2 9514 2368
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Director, Postgraduate Coursework Programs: UTS: Engineering
telephone +61 2 9514 1952
email Prasanthi.Hagare@uts.edu.au

Chris Wong
Director, Undergraduate Programs: UTS: Information Technology
telephone +61 2 9514 7938
email Chris.Wong@uts.edu.au

Mr Rene Leveaux
Postgraduate Coursework Programs: UTS: Information Technology
telephone +61 2 9514 1958
email Rene.Leveaux@uts.edu.au

Craig Shuard
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telephone +61 2 9514 4460
email Craig.Shuard@uts.edu.au

Phyllis Agius
Research Administration Officer
telephone +61 2 9514 2686
email Phyllis.Agius@uts.edu.au

Tracey Moore
Manager, Academic Programs Office
telephone +61 2 9514 2671
email Tracey.Moore@uts.edu.au

Ask UTS www.ask.uts.edu.au
Faculty contacts and areas of interest
A comprehensive list of UTS: Information Technology academic staff and their research areas is available from:

Environmental Health and Safety Plan
UTS: Information Technology is committed to providing a safe and healthy workplace for students, staff and visitors, and adopting a socially responsible approach towards protecting and sustaining the environment. Promoting a safe, healthy and environmentally sound environment is the responsibility of all staff and students.

More information is available at:
• MyFEIT (student intranet): http://my.feit.uts.edu.au/myfeit
• UTS: Safety and Wellbeing: www.safetyandwellbeing.uts.edu.au/student

Computing facilities
The faculty provides computer laboratories, network services and high bandwidth internet access for use in teaching and research. This gives students the software and information they need for their subjects and the services to communicate and collaborate with their peers. Personal laptops can also be used to access network services and the internet.

Teaching laboratories
Computer laboratories
The faculty has 17 computer laboratories in Building 10 and 20 computer laboratories in buildings 1 and 2 that are used in many subjects. They are regularly updated with the latest hardware and undergo a complete upgrade of operating systems and programs before most semesters.

Most labs offer students a choice of operating systems at the login screen, which gives the laboratories great flexibility to meet student and class needs.

The Building 10 laboratories can be grouped into 10 general purpose laboratories, each of 30 computers, as well as four internetworking labs, two professional presentation labs and a graphics lab.

Except during scheduled classes, general access to laboratories is:
• 8am–10pm Monday to Friday (during semester)
• 9am–6pm Monday to Friday (outside semester).

Booking times are located on laboratory doors.

Seven days a week, 24-hour access is provided to some laboratories throughout the University, including some of the UTS: Information Technology labs.

Network services
UTS: Information Technology provides a Unix shell, via SSH, with a home directory that is backed up regularly. Students can access additional services; this is normally organised by their lecturers.

Services include Oracle, MySQL, PostgreSQL databases, Subversion repositories and internal websites.

Breakout rooms and lounge areas
These areas provide space for students to collaborate together or for individuals to have time on their own. All areas have access to the wireless network and many, particularly the breakout rooms, have whiteboards, wired access and power. Breakout rooms can be booked and are suited for groups wanting a private meeting space, while the atrium lounge and table areas are more casual and social spaces.

Specific-purpose laboratories
Access to specific-purpose laboratories is arranged by the academic involved in a particular subject or research project.

Networking laboratories
These three laboratories are equipped with user-configurable, rack-mounted network equipment for teaching computer network subjects.

Graphics laboratory
A laboratory of specially equipped computers for graphic-intensive subjects is available. In particular, the computers have advanced graphic accelerator cards and the Maya software application.

Creativity and cognition studios
These studios form a multidisciplinary environment for research into computing support for creativity and into the development of new art forms and art practice using digital media. They include a games studio, a sound studio and a video wall with an interaction space incorporating a range of sensor systems.

Remote access facility
The remote access facility provides modem access for students and staff. This gives users access to UTS: Information Technology's computing systems and the internet.

Service desk facility
Students requiring IT support for any faculty-provided IT system, including the computing laboratories, should telephone or email, between 9am and 5pm weekdays, describing the problem:
telephone +61 2 9514 7922
email FEITServiceDesk@uts.edu.au

Compulsory safety induction
As part of the faculty's commitment to safety, all engineering and IT students are required to annually complete a safety induction in order to access PIN-protected facilities within the faculty. Completion of the safety induction is not required to be able to attend scheduled/ supervised lab sessions or use some IT labs during business hours.

Students enrolled in an engineering or IT course are automatically given access to enrol in the safety induction through UTS Online (the forum is called 'UTS: Faculty of Engineering and Information Technology - Safety Induction').

Students from outside the faculty who enrol in engineering or IT subjects and who need PIN access to faculty facilities must contact the faculty to get enrolled in the safety induction forum:
email FEITPinAdmin@uts.edu.au

This is also the contact for students who have problems with their PIN access.

Women in Engineering and IT Program
The Women in Engineering and IT (WiE&IT) Program at UTS is a long-standing initiative to redress the low rate of female participation in the field by communicating the opportunities of engineering and ICT (information and communications technology) careers as a course of study; by promoting the involvement of women in the course, in the Faculty and in research at UTS; and by networking with professionals from engineering and ICT fields and professional organisations.

We also seek to address attitudes and behaviours which may deter students and staff from achieving, in a safe and rewarding learning, research and working environment.

The WiE&IT Program invites students, staff and industry to support its ongoing activities in 2013 and contribute ideas for new initiatives which will attract and support more women to choose to study engineering and IT.

Further information is available at:
www.feit.uts.edu.au/women
www.utswomeninengineeringandit.blogspot.com

Short courses
UTS: Information Technology offers a variety of professional, commercial and customised courses throughout the year in the areas of computing and information technology. Courses regularly on offer include Advanced Java (J2EE), Developing Windows and Web Applications using Visual Studio .NET, Managing and Using Microsoft Share Point 2010, Fundamentals of Unix, IP Telephony and Voice Over IP (VoIP), Java Fundamentals, Object-oriented Programming with C++, Programming with C, Iphone Games Development, SQL Server 2008 for Business Intelligence, SQL Server 2008 for Developers, Linux Systems Administration and a range of Cisco certified network academy preparation stages for certification (CCNA stages 1 to 4).

New CCNA security courses are also available. These courses are offered by the UTS Cisco Networking Academy.

Courses may also be customised to suit corporate training needs.
For further information, contact:
Angelia Lawah, UTS:IT Short Course Administrator
telephone +61 2 9514 1806
fax +61 2 9514 1844
email Lianelia.Lawah@uts.edu.au
www.it.uts.edu.au/courses/short

Undergraduate course information
UTS: Information Technology offers undergraduate degrees in information technology and a number of combined degrees with business, international studies, law and mathematics.

The full list of courses is available at:
www.handbook.uts.edu.au/it/ug (see page 13)

Bachelor of Science in Information Technology students must complete eight foundation core subjects and an IT major (CBK90781).

IT majors are offered in four areas:
- Business Information Systems Management (MAJ02080)
- Enterprise Systems Development (MAJ03444)
- Internetworking and Applications (MAJ03445)
- Data Analytics (MAJ02081)

The following areas are offered as sub-majors:
- Business Information Systems Management (SMJ02064)
- Enterprise Systems Development (SMJ03036)
- Internetworking and Applications (SMJ03037)
- Data Analytics (SMJ02065)
- Computer Graphics and Animation (SMJ02066)
- plus sub-majors from other faculties.

Practice-based education
UTS: Information Technology is a leader in practice-based education and has offered a year of industrial experience, i.e. the Diploma in Information Technology Professional Practice (C20049) (see page 299), as part of its undergraduate courses for many years. The industry experience provides a better understanding of the relationship between theory and practice, and improves students' employability by providing workplace experience before graduation.

The Industry Partnering Unit (IPU) assists students in their preparation to obtain an industrial training position as part of the Diploma in Information Technology Professional Practice. The staff of the IPU maintain contact with various organisations that offer IT positions. Students seeking industrial training must attend the industrial training information session held in May each year and register in the semester preceding their intended period of industrial training.

The IPU maintains a database which provides information to students on available industrial training jobs.

Undergraduate progression rules
Undergraduate students who do not maintain the required minimum level of progress may be excluded from a course and have their enrolment withdrawn. The minimum rate of progress is achievement of 50 per cent of the credit points in which a student has been enrolled since the beginning of that course. In addition, students are bound by the Rules of the University and are advised to refer to them:
www.gsu.uts.edu.au/rules

Grading of awards
The cut-off points for grading are fixed and common across all undergraduate degrees as follows.

Students who have completed the required subjects and credit points determined for each award qualify to graduate at pass level.

Qualification for graded awards is based on the weighted average mark calculated for all graded subjects completed, including electives. Ungraded pass/fail subjects and exemptions granted as recognised prior learning are not included in the calculation.

The University Medal is awarded to the top student(s) in each graduating cohort provided their weighted average mark is above 85.

For a degree with distinction, the weighted average mark must be greater than or equal to 85. For a degree with credit, the weighted average mark must be greater than or equal to 65 and less than 75. The grading of Bachelor of Science (Honours) in Information Technology is as follows.

Qualification above third class honours is based on the weighted average mark calculated for all graded subjects completed, including electives. Ungraded pass/fail subjects and exemptions granted as recognised prior learning are not included in the calculation. All failures are included in the calculation.

- First class honours: the weighted average mark must be greater than or equal to 85.
- Second class honours (division 1): the weighted average mark must be greater than or equal to 75 and less than 85.
- Second class honours (division 2): the weighted average mark must be greater than or equal to 65 and less than 75.

The University Medal is awarded to the top student(s) in each graduating cohort provided their weighted average mark is above 85.

Postgraduate course information
UTS: Information Technology offers postgraduate degrees in information technology, IT management, internetworking and interactive multimedia.

The courses are designed to challenge the IT professional, help professionals develop specialised IT skills or equip people to enter the IT industry from other fields. The innovative programs cover growth areas such as cloud computing, computer graphics and gaming, data mining, enterprise software engineering, human-centred design, information systems services, interactive multimedia, networking applications and services, and strategic IT management and leadership.

Progression rules
Postgraduate information technology students may be excluded from further study at the University if they fail more than 50 per cent of the total number of enrolled credit points from the commencement of the course.

Postgraduate information technology students may also be excluded from a course if they exceed the maximum time allowed for completion of that course (see rule 10.5).

Credit recognition
Credit recognition is granted on the basis of the successful completion of equivalent subjects from recent undergraduate or recent postgraduate studies from recognised tertiary institutions. Students should lodge an application for credit recognition form if they wish to apply for exemptions from subjects within their enrolled course.

Postgraduate credit recognition is not normally granted where prior studies were undertaken more than three years previously. Postgraduate credit recognition is not granted for prior sub-degree TAFE studies or industry certifications. Credit recognition is mostly given for core subjects. However this is dependent on the specific program.

Articulation
While courses are offered as stand-alone qualifications they are also components of integrated programs of study that enable students who satisfactorily complete a graduate certificate or graduate diploma to apply for entry to a higher-level course within their chosen field of study. Where a student articulates from one level of study to another, the subjects completed are also carried forward into the higher-level course. Articulation is via internal course transfer.

Internal course transfer forms are available at:
www.sau.uts.edu.au/forms

Postgraduate research
UTS: Information Technology has a lively and cutting-edge research culture driving advances in engineering and IT technology, practice and education. UTS: Information Technology’s research is needs-driven and collaborative, and works with many enterprises in business partnerships. Researchers are world-class and recognised leaders in their fields.
Research is varied and utilises modern laboratories and research facilities at City campus, Broadway. These are supported by extensive computing facilities and library services. The laboratories have excellent back-up workshops and expert support staff. Many opportunities exist for professional development through challenging, well-resourced research programs.

UTS: Information Technology practises excellence in research and research training, and is committed to the production of high quality research output in collaboration with other faculties, other universities and industries in Australia and overseas. UTS: Information Technology’s increasing research activities are driven by a substantial number of excellent research leaders among academic staff which has resulted in a significant increase in high quality research publications. PhD completions and competitive research grants awarded, in particular, research grants from the Australian Research Council.

Contacts and inquiries
The management and administration of all research matters of the Faculty of Engineering and Information Technology is managed through the Research and Development Office, headed by the Associate Dean (Research and Development). The office is responsible for a broad range of matters including, but not limited to, research-strategic priorities, policy and planning, and advice and support to staff in preparing grant applications, research publications, research conferences and research degree student supervision. The Associate Dean is supported by the Director of Research Programs, the Research Manager and the research administration officers, who are responsible for the academic management and support of research degree students and general research matters respectively.

Research matters are governed via the Research Management Committee and Research Degrees Committee that report to the Faculty Board in Engineering and Information Technology. The Research Management Committee has overarching responsibility for determining research strategies and policies, and for making recommendations in relation to building a research culture and profile, and for budgetary and resourcing matters relating to research. The Research Degrees Committee makes recommendations and sets policies relating to candidate management of higher degree research degree students, from admission through to graduation.

Specific inquiries should be directed to the Faculty of Engineering and Information Technology Research and Development Office.

Key staff are:
- Associate Professor Jaya Kandasamy
  Director of Research Programs
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- Gunasmin Lye
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General inquiries from domestic students should be directed to:
- UTS Graduate Research School
telephone +61 2 9514 1336
- UTS International
telephone 1800 774 816 (free call within Australia)

Research profile and strengths
The Faculty of Engineering and Information Technology has a number of key research centres and institutes. These centres are hives of research activity that have international standing within their respective discipline areas. The centres include:
- Advanced Analytics Institute
- Centre for Built Infrastructure Research
- Centre for Electrical Machines and Power Electronics
- Centre for Energy Policy
- Centre for Health Technologies
- Centre for Human-Centred Technology Design
- Centre for Innovation in IT Services and Applications
- Centre for Intelligent Mechatronic Systems
- Centre for Quantum Computation and Intelligent Systems
- Centre for Real-Time Information Networks
- Centre for Technology in Water and Wastewater

Research opportunities and major research areas
Research opportunities are available in the following areas of specialisation:

- **School of Civil and Environmental Engineering**: built infrastructure; structural engineering; geotechnical engineering; construction materials; local government; road engineering; water and environmental resource management; water modelling; membrane technology in water and wastewater treatment; soil contamination and remedial techniques; and solid waste management.

- **School of Computing and Communications**: wireless relay/mesh and cooperative networking; body area networking; micro- and nano-scale networks; 4G (WiMAX, LTE); short-range RF and inductive near field communication systems and sensing; antennas and propagation; microwave engineering; national broadband network; multi-antenna systems; wireless sensor networks; bio-mimetic paradigms for network management and configuration; autonomic communications; anticipatory systems; radio resource management (RRM) mechanisms; Satellite communications and broadcasting; LAN/WAN enterprise networking; network embedded applications; m-health monitoring; mobile networks; personal area networks; multimedia switching; mobile and distributed multimedia applications and services; network security; internet service architecture; programmable networks; internet quality of service; web technologies; web architecture framework; mobile commerce and internet business; location-based services; network grid services; peer to peer networks; digital signal processing; pattern recognition; computer vision; multimedia; image processing; image and video analysis; machine learning; cognitive and affective multimedia content analysis; and multimedia systems.

- **School of Electrical, Mechanical and Mechatronic Systems**: advanced control; artificial intelligence; autonomous robotics; automotive engineering; biomedical engineering; energy; embedded systems; health technologies; mechatronics; power systems; and renewable energy.

- **School of Software**: art and technology; artificial intelligence; computer animation; computer games; computer graphics; computer usability; data mining; e-finance; e-government; e-health; e-marketing; e-safeguard; e-security and e-service; emergency management; expert systems; human-computer interaction; information systems; innovation and creativity; innovation and technology; intelligent agents; intelligent problem
solving and smart business decision-making in engineering; interaction design; interactive entertainment; interactive story telling; learning environments; multi-agent systems; multimedia; next-generation automated enterprise cooperative infrastructure; object-oriented computing; object-oriented processes and methodologies; ontologies; optimisation activities; quantum computing; ray tracing; rendering techniques; requirements engineering; resource planning; robotics; semantic web; smart trading systems; software development; and technology design and use.

• School of Systems, Management and Leadership: energy policy and planning; engineering practice; environmental risk; information systems; IT education; IT governance; IT strategy and management; knowledge management; operations and risk management; strategic IT leadership; systems analysis and design; systems development; and systems theory and socio-technical systems.

Research centres and institutes

The Faculty of Engineering and Information Technology supports several centres and institutes, each capturing established research strengths in Engineering and Information Technology related fields. These include the following:

Advanced Analytics Institute (AAI)

AAI provides cross-disciplinary expertise and leadership in areas including data mining, machine learning, applied statistics, behaviour analytics, data science and engineering, marketing, finance, economics, decision-making, optimisation and risk management. AAI offers cross-disciplinary and cross-domain research capabilities and hands-on experience in advanced analytics across historical data, real-time information and future trends. Analytics is a fast-growing global industry with an ever-increasing demand for qualified graduates. At UTS, a cross-disciplinary approach to analytics research brings together experts from across UTS’s faculties and research centres to form a specialist analytics group. AAI brings together leading researchers from the Faculty of Engineering and IT, the Faculty of Business, the Centre for Quantum Computation and Intelligent Systems (QCIS) and the Centre for the Study of Choice (CenSoC). The Institute also fosters dedicated research and development resources for advanced analytics and receives resource support from the UTS External Engagement department and the UTS Research Innovation Office.

AAI offers unique training programs in broad-based analytics. AAI is working towards fostering world-class specialists and analytical project managers for specific domains through a supervisor-driven and practice/project-oriented approach, interdisciplinary workshops, short courses (including executive training), and day-to-day engagement in tier-one organisations.

Professor Longbing Cao
Director
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www.analitics.uts.edu.au

Centre for Built Infrastructure Research

The Centre for Built Infrastructure Research (CBIR) comprises a multidisciplinary team of researchers from the faculties of Engineering and Information Technology; Science; and Design, Architecture and Building. CBIR’s nationally and internationally renowned work focuses on finding solutions to important global problems in control, rehabilitation and health monitoring of building structures and bridges, green and smart materials, sustainable design, management, improvement, safety and conservation.

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Director
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www.research.uts.edu.au/strengths/bi

Centre for Electrical Machines and Power Electronics

The Centre for Electrical Machines and Power Electronics (CEMPE) is principally concerned with electrical variable speed drives and generation of electricity using rotating electrical machines and renewable energy sources (such as wind and hydro). The technical research disciplines necessary for these two areas are very similar, covering electrical machines design, power electronics and mechanical design. The interest in renewable energy generation is primarily for remote areas and developing countries, so the incorporation of expertise in design for such areas is valuable, with the inclusion of energy requirements analysis, energy economics, technology transfer and human management issues.

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http://services.eng.uts.edu.au/cemp/
The Centre for Innovation in IT Services and Applications (iNEXT) is a world-class research environment for developing and nurturing innovation for the next generation IT services and applications, including internet-enabled business applications, mobile health services, high-end visualisation technologies, novel image processing architectures and advanced video surveillance systems.

- Future internet: iNEXT aims to develop those enabling mechanisms that will allow the transformation of the current connectivity infrastructure into the service infrastructure of tomorrow’s internet.
- Applications and services: iNEXT aims to develop innovative applications with special focus on assistive mobile health and internet-enabled business applications.
- Visual information processing: iNEXT aims to define novel visualisation techniques and intelligent recognition algorithms for extracting important information from video streams and wireless sensor networks for surveillance and environmental monitoring purposes.

Commercialisation of such applications and services is particularly emphasised. iNEXT includes a significant research training component, graduating many research students in the past years.

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Labs and contacts
Advanced Research in Networking
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Computer Vision and Image Processing Lab
Lab Director: Professor Xiangjian He
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Surveillance Lab
Lab Director: Professor Massimo Piccardi
email Massimo.Piccardi@uts.edu.au

Visualisation Laboratory
Lab Director: Associate Professor Mao-Lin Huang
email Mao.Huang@uts.edu.au

Centre for Intelligent Mechatronic Systems
Building on 15 years of strong cross-disciplinary research in electrical machines and power electronics at UTS, the Centre for Intelligent Mechatronic Systems (CIMS) integrates the disciplines of mechanical, electrical and electronics engineering and computer systems. Its four main research directions are: autonomous robots (operating in unstructured environments and for infrastructure maintenance, search and rescue, health care and road vehicles); electrical machines (novel materials and topologies, system optimisation, variable speed control and compact, low temperature fuel cells); automotive systems (performance, comfort, fuel efficiency, road safety and emission control); and human factors (physiological and psychological aspects of human–machine and human–environment interaction).

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Centre for Quantum Computation and Intelligent Systems
The Centre for Quantum Computation and Intelligent Systems (QCIS) is a research centre within the University’s Priority Investment Research Program. The centre’s mission is to be acknowledged by research centres throughout the world as a pre-eminent research centre in quantum computation and intelligent systems, and to be acknowledged by Australian industry and government as a leading source of knowledge and expertise in quantum computation and intelligent systems.

The centre was established in April 2008 with a vision to develop:
- theoretical foundations for quantum computation
- theoretical foundations for intelligent systems, and
- innovative technologies for intelligent systems.

This technology will result in next-generation enterprise intelligent information systems.

The centre’s five major research programs cover quantum computation, knowledge discovery, decision support, innovation and infrastructure enhancement. Together, these programs develop a set of innovative and practical methodologies and techniques for intelligent information processing and system building for a broad range of businesses in the finance, marketing, security, health, government and engineering sectors.

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Labs and contacts
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Data Sciences and Knowledge Discovery Laboratory
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Decision Systems and e-Service Intelligence Laboratory
Lab Director: Professor Jie Lu
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Knowledge Infrastructure Enhancement Laboratory
Lab Director: Dr Paul Kennedy
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Innovation and Enterprise Research Laboratory
Lab Director: Professor Mary-Anne Williams
email Mary-anne.Williams@uts.edu.au

Centre for Real-Time Information Networks
The Centre for Real-Time Information Networks (CRIN) aims to support research and development activities related to the efficient creation, collection, transmission, analysis and use of information in real-time, engineering-embedded applications. The centre supports the improvement of Australian society through a focus on applied research achieved through close links with both industry and research bodies working in appropriate application domains.

Examples of priority areas of interest for the centre are national security for safeguarding Australia, healthcare diagnosis and monitoring for the cost effective improvement of the health of Australians, environmental and resource monitoring for a sustainable Australia, and the smart use of the web in supporting Australian industry.
The centre aims to design, fabricate and test proof of concept systems, in which the performance and operational suitability of the developed systems is demonstrated. The proof of concept systems may be electronic hardware, software, or a combination of hardware and software, and will include the latest prototyping technologies, such as embedded processors, high-performance networks and sophisticated distributed software applications.

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www.crin.uts.edu.au

Centre for Technology in Water and Wastewater
The Centre for Technology in Water and Wastewater (CTWW) undertakes research to ensure the sustainable management of water resources in both urban and rural environments, in Australia and internationally. This collaborative research centre links researchers, government, industry and community partners through its research programs, which include solid liquid separation and filtration technologies in water treatment; innovative biological treatment systems for wastewater treatment; membrane hybrid and nanotechnology systems in water, wastewater and stormwater treatment; water reuse; desalination; in situ barrier and other systems for treatment of groundwater, surface and groundwater hydrology; bio-solid and wastewater management; urban water cycles and soil/aquifer management and modification; and flood management and catchment modelling for flood prediction.

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www.research.uts.edu.au/strengths/ctww

Formal external research links
UTS: Information Technology research groups have formal links to external organisations such as the Cooperative Research Centres (CRC) network.

Capital Markets CRC
The Capital Markets CRC aims to be the technology provider of choice to global securities businesses / markets. It supports research programs in corporate governance, data mining, interoperability, language technology, market design and visualisation.

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UTS: INTERNATIONAL STUDIES

Information for students
UTS: International Studies plays a key role in the internationalisation of the UTS teaching and learning experience both in the Faculty of Arts and Social Sciences (FASS) and across the University. The International Studies program teaches:
• about cultural diversity and social change in Asia, Europe and the Americas
• about processes of regionalisation, internationalisation, transnationalism and globalisation, and their localised receptions
• a suite of Asian and European language and culture subjects at many levels.

UTS: International Studies is responsible for the coordination and implementation of the following teaching programs:
• the Bachelor of Arts in International Studies, which can be combined with most other bachelor's-level degrees at UTS
• the Bachelor of Global Studies (C10264) (see page 278)
• the Australian Language and Culture program (see page 91)
• the Graduate Diploma in International Studies (C06106) (see page 400) and Master of Arts in International Studies (C04262) (see page 384) (by coursework)
• Master of Arts in International Studies (Research) (C03034) (see page 491)
• Doctor of Philosophy (PhD) in International Studies (C02039) (see page 478)

Staff in UTS: International Studies also conduct research in the above areas, with particular strengths in European, Latin American, Asian and China studies, as well as in language teaching and curriculum development. Staff in the program are affiliated with a number of FASS research centres: the Transforming Cultures Research Centre, the Cosmopolitan Civil Societies Research Centre, the China Research Centre and the Centre for Research in Learning and Change.

Location, contacts and inquiries
Ask UTS www.ask.uts.edu.au
e-mail iisinfo@uts.edu.au
www.internationalstudies.uts.edu.au
fax +61 2 9514 1500

Bachelor of Arts in International Studies
Technological change, globalisation and increased mobility during the second half of the 20th century have dramatically increased the importance of having an international outlook. In all aspects of life and work, contemporary graduates need to be aware of the wider world. UTS aims to enhance its graduates’ understanding of other cultures and societies through the Bachelor of Arts in International Studies, which can be combined with most other bachelor's-level degrees at UTS.

The Bachelor of Arts in International Studies introduces students to languages and cultures of the non-English-speaking world and teaches them about contemporary societies in Asia, Europe and the Americas. The course provides opportunities for students to study overseas for an academic year at an institution of higher education in the country of their international studies major. At postgraduate level, the Master of Arts in International Studies (C04262) (see page 384) (by coursework) also provides the possibility of study overseas for one semester.

The key element in the Bachelor of Arts in International Studies is a period of study overseas (see page 88). In preparation for this, the study of the language and culture (see page 88), contemporary society (see page 91), and political and economic structure of the relevant country is necessary. The course requires undergraduate and postgraduate (coursework) students to follow a single major (see page 92), a specialisation in a particular country or region.

Students study one of the following countries or majors: Argentina, Canada (Québec), Chile, China, Colombia, France, Germany, Italy, Japan, Latino USA, Mexico, Spain or Switzerland.

Students are admitted to the combined degrees with international studies with no guarantee of entry to a specific major, although every effort is made to meet students' preferences. UTS: International Studies reserves the right to allocate places in majors according to its resources and arrangements with overseas universities.
The Bachelor of Arts in International Studies has no prior language requirements.

Each student's choice of major and subjects requires the approval of the Faculty Board of the Faculty of Arts and Social Sciences.

In exceptional circumstances (see special arrangements) (see page 91) students may, with the approval of the head of the International Studies program, vary the designated subjects in their international studies major. See the lists of approved alternative subjects (see page 91) for undergraduate students and for postgraduate students.

**International students**

International students may apply to undertake any of the combined degrees with international studies, or the postgraduate coursework program. International students follow the same program as local students, and may access any of the majors offered, provided the country they choose as their major is able to grant them a visa to study there. This needs to be determined prior to commencing subjects within the major. If a visa cannot be granted, it is not possible for the student to undertake the chosen major.

**Language and culture subjects**

UTS: International Studies organises the teaching of Chinese, French, German, Italian, Japanese and Spanish for all UTS students.

UTS students can access language and culture subjects in one of the following ways:

- as part of an undergraduate combined degree or as part of the postgraduate coursework degree program in international studies
- as part of the Bachelor of Global Studies (C10264) (see page 278)
- as a sub-major within a degree this option is available
- as elective subjects in any other UTS degree, with faculty approval, or
- as non-award subjects.

Students are encouraged to study a language other than English, not only to gain a communication tool, but also to gain an understanding of another culture and society. UTS: International Studies does not usually give exemptions for any previous study of languages. The language and culture subjects admit students at different levels and are able to meet various levels of linguistic competence in order to enhance each student's communicative ability. Students in the combined degree with international studies are asked to contact UTS: International Studies regarding any issues with their language and culture subjects.

UTS students who want to study languages not offered at UTS are asked to apply via cross-institutional enrolment to the university that offers the language they wish to study. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university. UTS: International Studies is unable to assist with cross-institutional enrolments.

UTS students who wish to engage in language and culture studies at UTS, but not for credit to a degree, are admitted as fee-paying, non-award students. Students from other institutions can enrol in language and culture subjects as cross-institutional students. Application forms for non-award or cross-institutional enrolment may be downloaded from the UTS website at: www.uts.edu.au/study/nonaward.html

In all cases, classes are only taught at UTS if student numbers permit.

Language and culture subjects are an important part of the Bachelor of Arts in International Studies. They are designed to prepare UTS students for further study in the country of their international studies major.

**Enrolment procedures for language and culture subjects**

Combined degree students in the Bachelor of Arts in International Studies and students in the postgraduate coursework degree program are required to enrol in language and culture subjects as noted on their study plan.

Other UTS students who wish to study a language and culture subject as a credited sub-major or elective(s) in their current degree need to obtain approval from their faculty before they enrol in the subject.

All students undertaking language and culture study at UTS for the first time need to complete a level assessment to ensure that they are placed at an appropriate class level.

UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

The procedure for students who wish to take UTS: International Studies subjects as electives or sub-majors is as follows.

- Students must, at the earliest opportunity during the enrolment period, request permission from their faculty to study the subject by submitting an e-request. When submitting an e-request for a language subject students, must complete the additional fields under the Language Subject Details section. More information is available at language assessment.
- Once the subject is approved, the Student Centre makes an initial assessment of the e-request by analysing the responses in the Language Subject Details section, in conjunction with the submitted supporting statement.
- Student Centres add and waiver the level 1 subject if students have little or no experience in the language, and then reply to the student.
- For students with prior knowledge or experience in the language, their e-requests are forwarded to UTS: International Studies for processing.
- Students who require an assessment need to attend a language session.

Students wishing to study a language as an elective are only granted approval if spaces are available four weeks before the beginning of semester. Places in subjects are limited.

Students intending to take international studies subjects as electives or sub-majors are advised to lodge an e-request at the earliest opportunity during the enrolment period.

**Credit points and workload**

All language and culture subjects are taught over one semester and have a value of 8 credit points. All language and culture subjects taught on UTS campuses consist of four contact hours a week.

To cater for the different needs of students, each language and culture program has different points of entry depending on a student’s language skill. Beginner levels necessarily concentrate more on basic communication skills; the higher levels introduce students to literature and culture in the language of study.

Students who start a language at beginners level on their entry to the Bachelor of Arts in International Studies can expect to acquire survival language skills for their period of in-country study; and to lay a strong foundation for further language acquisition after graduation.

Students with competence in a language they intend to study are admitted to the language and culture subjects at a higher level to reflect their ability in that language. These students are expected to improve their existing skills in speaking, comprehension, reading and writing. Through the process of language acquisition, students are also encouraged to obtain an insight into the relevant culture.

Students in the Bachelor of Arts in International Studies follow a specific language and culture program by enrolling in a series of subjects — four for undergraduates in an international studies combined degree and at least two for postgraduates in the postgraduate coursework degree program in international studies. In exceptional circumstances students with advanced competence in a language may be exempted from further study in that language. Students who have advanced competence in the language of their major are encouraged to choose a third language in the International Studies program. Other subjects may also be taken. Further details are provided under the regulations for special arrangements (see page 91). Any amendments to the individual student's International Studies program are subject to the approval of the head of the International Studies program.

**In-country study**

In-country study is a key component of both the Bachelor of Arts in International Studies and the Master of Arts in International Studies (by coursework). It provides a unique opportunity for students to immerse themselves in the language and culture of another country, through a learning program at a host university, through involvement in the life of the local community, and through assignments that are supervised by UTS: International Studies.

**When?**

Students taking the combined degree with a Bachelor of Arts in International Studies must spend two semesters of study at a university or other higher education institution in the country of their major. In-country study is usually taken in the fourth year of a combined degree. Students taking the Master of Arts in International Studies may spend one semester of study in the country of their major.
Where?
All in-country study is taken in countries where English is not the predominant language. In-country study is organised by UTS: International Studies at over 70 universities in Argentina, Canada (Québec), Chile, China, Colombia, France, Germany, Italy, Japan, Latino USA, Mexico, Spain or Switzerland.

What?
Each student’s individual study program depends on their level of language competence and the subjects and other learning experiences that are available at their host university. All students must also complete assignments that are assessed by staff of UTS: International Studies.

Costs
In-country Study 1 and In-country Study 2 are full-credit subjects at UTS for which the student contribution is payable at undergraduate level. Students receiving student financial support in Australia are still eligible to receive it while they are engaged in the period of in-country study.

The costs of tuition at overseas universities and of travel between Sydney and the student’s place of study are paid by UTS, except in cases where a scholarship has been awarded to a student with provision for these costs. Visa fees are also paid by UTS and students are covered by the UTS Overseas Insurance Policy.

Students pay the costs of accommodation and other living expenses during their period of in-country study. Students should be aware that the living costs vary from country to country and that in some countries living costs are high. The UTS medical service is available to students for medical examinations for visas, vaccinations and other country-specific health advice.

Admission to in-country study
Under normal circumstances, students can only proceed to a period of in-country study within the Bachelor of Arts in International Studies after they have successfully completed all earlier stages in the combined degree. Students who have not successfully completed all earlier stages may proceed to a period of in-country study only with the permission of both the dean of the faculty in which their degree is based and the head of the International Studies program.

In-country study academic prerequisites
Before undertaking In-country Study 1, students must have satisfactorily completed:

• 976001 Foundations in International Studies
• four semesters of language and culture subjects approved by the International Studies program as appropriate for the student’s particular country major
• the contemporary society subject relevant to country major
• all the required subjects in the student’s professional degree program.

Before undertaking In-country Study 2, students need to have successfully completed In-country Study 1.

Content and assessment
Students with a basic level of language competence usually follow a program of study that continues to develop their knowledge and understanding of the host country’s language and culture. Those whose level of language competence is adequate, study subjects related to the development of the contemporary society — history, economics, politics, society and culture — of the host country, alongside students from that country. Those whose level of language competence and understanding of local culture is close to that of a native speaker may choose freely from a wide range of subjects related to the development of the contemporary society — history, economics, politics, society and culture — of the host country, alongside students from that country.

Where?
Latinos USA, Mexico, Spain or Switzerland.

Conditions of participation for in-country study
Before students engage in a period of in-country study, they may be required to meet appropriate financial and enrolment requirements. They are also required to agree to be governed by UTS: International Studies’ conditions of participation for the period of in-country study and to abide by the rules and regulations of the host institution and the laws of the host country. The conditions of participation are as follows:

As a student of UTS participating in a period of in-country study within the International Studies program, I understand that I remain subject to the Rules, Codes of Conduct, Policies and Procedures of UTS (see rule 2.1.1) and undertake to:

• accept financial responsibility for all personal expenditure and for all costs that are additional to those met by UTS; additional costs may include insurance or social security payments required by host universities
• meet all academic requirements that precede the period of in-country study
• abide by the regulations for in-country study travel arrangements as set out by UTS: International Studies
• participate in any pre-departure preparation specified by UTS: International Studies and abide by deadlines in the processes of collating necessary information for travel and university enrolment arrangements
• advise the appropriate faculty and UTS: International Studies of any changes in an academic program while overseas in accordance with applicable UTS dates and the guidelines of UTS: International Studies
• abide by the laws of the host country
• abide by the rules and regulations of the host institution (see rule 2.1.5)
• behave personally and professionally in an appropriate manner for a representative of UTS
• consult with staff of UTS: International Studies and advisers at the host institution should any problems arise in relation to academic or other matters during a period of in-country study
• where relevant, obtain appropriate advice relating to health matters, disabilities or other special needs from a relevant professional regarding ability to complete the period of in-country study and liaise with staff of UTS: International Studies should any additional arrangements be required. Note: UTS cannot guarantee that host universities will be able to meet the needs of all students, and in some cases students may be advised to complete in-country study by means of approved alternative subjects in Sydney.

I understand that failure to abide by these conditions may result in disciplinary action (see rule 2.1.10).

Rules and regulations for in-country study (ICS) travel
• The travel team at UTS: International Studies will be solely responsible for travel arrangements. All travel issues must go via UTS: International Studies travel staff. Students will not have any contact with travel agents.
• UTS will pay for the most economical, reasonably direct airfare to the ICS location. This includes applicable government and airline taxes.
• Students must comply with relevant airline security and baggage regulations.
• Major coordinators will decide on departure dates within their major. Students enrolled in the same program within one ICS location will depart from Sydney on the same date. Major coordinators will advise students of their departure dates from Sydney and their arrival dates at ICS locations.
• No changes can be made to the departure date from Sydney (except in cases of serious illness or misadventure and in consultation with the major coordinator and travel staff at UTS: International Studies).
• UTS will not be responsible for any extra costs involved with late travel bookings to the ICS location caused by students not providing relevant documentation within UTS: International Studies set timeframes.
• Students cannot make stopovers, change the routing or add any side trips to their air tickets. Students can individually organise any private travel during their semester breaks.
• Students are responsible for changing the date of their return flight to Sydney as advised by the travel team. Information on these procedures is distributed at the pre-departure briefing meeting along with air tickets. Return flights are subject to availability in the fare class booked.

UTS: International Studies
UTS: Handbook 2013
• Students should return to Sydney only after completing their academic program at the host university. Students who wish to return to Sydney before their academic program has finished must have prior approval from their major coordinator.
• Students are able to stay overseas for a maximum of 12 months from their departure date ex-Sydney.
• UTS will not credit or refund travel for students who decide to make their own travel plans, or who fail to re-confirm fully with airlines their return flight details to Australia.
• Students withdrawing from travelling overseas on ICS for personal reasons, after air tickets have been issued, will be responsible for reimbursing UTS all cancellation costs. Cancellations costs may include any agency and airline fees.
• Students need to comply with instructions given by UTS on repatriation to Sydney for health or security reasons. Directions may be issued via the head of international studies, major coordinator or travel team.

Partner universities hosting in-country study programs
UTS: International Studies reserves the right to make alterations to the location and content of any program of in-country study at any time.

Argentina
• Universidad Católica Argentina (UCA), Buenos Aires

Canada (Québec)
• Université Laval, Québec City

Chile
• Chile Pontificia Universidad Católica de Chile (PUC), Santiago
• Universidad Adolfo Báñez (UAI), Valparaíso

China
• Shanghai University, Shanghai
• Shanxi University, Taiyuan
• Tianjin Normal University, Tianjin
• Yunnan Normal University, Kunming
• Zhejiang University, Hangzhou

Colombia
• Universidad de los Andes, Bogotá

France
• Télécom and Management SudParis, Évry
• Université de Caen Basse-Normandie, Caen
• Université Lumière Lyon 2, Lyon
• Université Michel de Montaigne Bordeaux 3, Bordeaux
• Université de Poitiers, Poitiers
• Université de Reims, Champagne-Ardenne, Reims
• Université Rennes 2 — Haute Bretagne, Rennes
• Université de Strasbourg, Strasbourg
• Université de Toulon et du Var, Toulon
• Université de la Nouvelle Calédonie, Nouméa

Germany
• Georg-Augustus Universität Göttingen, Göttingen
• Technische Universität Berlin, Berlin
• Universität Duisburg-Essen, Duisburg
• Universität Karlsruhe, Karlsruhe
• Universität Konstanz, Konstanz
• Universität Potsdam, Potsdam
• Universität Regensburg, Regensburg
• Universität des Saarlands, Saarbrücken
• Universität Tübingen, Tübingen

Italy
• Libera Università di Lingue e Comunicazione IULM, Milan
• Politecnico di Milano, Milan
• Università Cattolica del Sacro Cuore, Milan
• Università degli studi di Bergamo, Bergamo
• Università degli studi di Bologna, Bologna
• Università degli studi di Catania, Catania
• Università degli studi di Genova, Genoa
• Università degli studi di Lecco, Lecco
• Università degli studi di Modena e Reggio Emilia, Modena
• Università degli studi di Trieste, Trieste

Japan
• Gifu University, Gifu
• Hokkaido University of Education, Hakodate Campus, Hakodate, Hokkaido
• Ibaraki University, Mito City, Ibaraki Prefecture
• Kagoshima University, Kagoshima, Kyushu
• Kansai Gaidai University, Hirakata City, Osaka Prefecture
• Kyoto University of Foreign Studies, Kyoto
• Kyushu Institute of Technology, Kitakyushu, Kyushu
• Nagoya Institute of Technology, Nagoya City, Aichi Prefecture
• Niigata University, Niigata City, Niigata Prefecture
• Nishogakusha University, Kashiwara, Chiba
• Ochanomizu University, Machida, Tokyo
• Okayama University, Naha, Okinawa
• Osaka Prefecture University, Osaka
• Tokyo Institute of Technology, O-okayama, Tokyo
• Sapporo University, Sapporo, Hokkaido
• Yamagato University, Kofu, Yamanashi
• Yokohama National University, Yokohama

Latino USA
• San Diego State University
• University of Arizona, Tucson
• University of Miami, Florida
• University of Texas, El Paso

Mexico
• El Instituto Tecnológico y de Estudios Superiores de Monterrey (ITSEMS), Monterrey
• Universidad de Guadalajara (UdeG), Guadalajara
• Universidad de las Américas (UDLA), Puebla
• Universidad Veracruzana (UV), Xalapa

Spain
• Universitat Autònoma de Barcelona, Barcelona
• Universitat Abat Oliba, Barcelona
• Universidad Antonio de Nebrija, Madrid
• Universidad de Cantabria, Santander
• Universidad de Granada, Granada
• Universidad de La Rioja, Logroño
• Universidad de Málaga, Málaga
• Universidad de Sevilla, Sevilla
• Universidad de Navarra, Pamplona
• Universidad Pública de Navarra, Pamplona
• Universidad de Salamanca, Salamanca
• University Alfonso X El Sabio, Villanueva de la Cañada (Madrid area)

Switzerland
• Université de Lausanne, Lausanne
• Universität Zürich, Zürich
• Universität Bern, Bern
• Université de Neuchâtel, Neuchâtel
• Université de Fribourg, Fribourg
• Università della Svizzera italiana, Lugano

Academic support and pastoral care
In-country academic advisers from each host university assist UTS: International Studies’ staff in monitoring students’ progress and provide academic support and pastoral care. At the end of each semester of in-country study, the host university reports to UTS: International Studies on each student’s progress. Country coordinators from UTS: International Studies visit each student at least once during their in-country placement and regular contact is maintained with students and with the host universities’ academic advisers. Before departure, students receive both a subject outline and a detailed study guide, which together outline the study program for each host university, including the range of subjects available, assessment guidelines and criteria and advice on practical matters associated with settling into the life of the local community. The study guide also includes contact numbers for Australian embassies and consulates. An emergency policy has been developed and students are advised of procedures to follow in the event of an emergency.
Alternative arrangements

In-country study is an integral component of the International Studies program; all students are expected to proceed to a period of in-country study during the course. In exceptional cases, after applying for special consideration, provision may be made for students to vary their program of study to fit individual circumstances. Under these circumstances, students may be required to complete their Bachelor of Arts in International Studies by taking subjects from the list of approved alternative subjects (see page 91). Replacing a 24-credit-point in-country study subject requires that the student complete three alternative subjects, two of which must be from UTS: International Studies. Any such request would need to be made in writing to UTS: International Studies at the earliest possible opportunity. Any variation in the Bachelor of Arts in International Studies is subject to the approval of the head of the International Studies program.

UTS: International Studies reserves the right to vary the in-country study component of the Bachelor of Arts in International Studies program in the event of unsafe conditions in a particular region.

Foundations in international studies and contemporary society

In each major of the Bachelor of Arts in International Studies, students take two specific subjects that provide an introduction to the history, politics, economics and society of the country or region of their international studies major. The subject 976001 Foundations in International Studies provides students with an understanding of international approaches and perspectives in regards to issues of contemporary importance in Asia, Europe and the Americas. All students take this subject to help them gain an appreciation of representative theoretical approaches to the main forces in global issues sufficient to apply these approaches to specific cross-cultural and interdisciplinary areas of interest.

The contemporary society subjects provide an introduction to a specific country or region in order to ensure that students gain an understanding of its political, social and economic structures, and to identify its more dynamic aspects. No prior knowledge of the culture or skill in the language of the country concerned is required, and all teaching is conducted in English. Contemporary society subjects are taught by UTS: International Studies, with students studying the contemporary society subject relevant to their major (CBK90142). Contemporary society subjects are also offered as electives to all UTS students.

Australian Language and Culture program

The Australian Language and Culture program provides English language development through the study of Australian society and culture. Subjects may be undertaken only by study abroad or exchange students who have an English language test score lower than the UTS entry requirement.

The English proficiency requirement for international students or local applicants with international qualifications is IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 68-90 overall with a writing score of 17, with the exception of 59343 Experiencing Australian Language and Culture, which is restricted to students whose academic English falls below the IELTS requirements stated above.

Students may study subjects in the program for one semester then take an IELTS or TOEFL test. Students who then meet the UTS entry requirements can enrol in UTS faculty subjects for the second semester via UTS Exchange. The subjects available in the program are:

- 59304 English for Academic Purposes 1
- 59305 English for Academic Purposes 2
- 59306 Researching Australia 1
- 59307 Researching Australia 2
- 59308 Australian Society and Culture 1
- 59309 Australian Society and Culture 2
- 59302 Film and Popular Culture 1
- 59303 Film and Popular Culture 2
- 59343 Experiencing Australian Language and Culture

Further information is available from UTS International:

telephone + 61 2 9514 1798
fax + 61 2 9514 7843
email studyabroad.exchange@uts.edu.au
www.uts.edu.au/international/exchange
www.uts.edu.au/international/prospective/studying/abroad

Special arrangements

Under certain circumstances some students may need to vary the subjects of study prescribed by their major in the Bachelor of Arts in International Studies.

In these and other exceptional circumstances, special arrangements can be made to cater for individual needs. Students should notify UTS: International Studies in writing, at the earliest time possible, of these circumstances.

Under such circumstances, students are required to study one or more subjects from the list of approved alternative subjects to the equivalent value of credit points (see below).

For any amendment to the course of study, students need approval from the head of the International Studies program.

Approved alternative subjects

Approved alternative subjects for undergraduate students

Approved undergraduate alternative subjects include all language and culture subjects: Chinese, French, German, Italian, Japanese and Spanish. All language and culture subjects have a value of 8 credit points and are taught over one semester.

All contemporary society subjects may be taken as approved alternative subjects: Contemporary Canada (Québec), Contemporary China, Contemporary France, Contemporary Germany, Contemporary Italy, Contemporary Japan, Contemporary Latin(o) America, Contemporary Spain and Contemporary Switzerland. All contemporary society subjects have a value of 8 credit points. Note: Contemporary France, Contemporary Germany, Contemporary Italy, Contemporary Spain and Contemporary Switzerland are offered at the same time and day in Spring semester only; students are thus only able to select one of these subjects in that semester.

Other approved alternative subjects may be any of the following, subject to availability: 58227 Balancing World Views: Introduction to Aboriginal Cultures, 013082 Aboriginal Social and Political History and 58218 Ideology, Beliefs and Values. Each of these subjects has a value of 8 credit points.

Approved alternative subjects for postgraduate students

Approved postgraduate alternative subjects include all language and culture subjects: Chinese, French, German, Italian, Japanese and Spanish. Other approved alternative subjects are also available in CBK90040.

Sub-majors, electives and non-award studies

Students at UTS can increase their intercultural skills by enrolling in a language and culture program and contemporary society subject. Students in any degree offered at UTS may be able to take these subjects as electives or as a sub-major, provided this is approved by their faculty.

Students can study Chinese, French, German, Italian, Japanese and Spanish.

Sub-majors are available by combining three international studies subjects; three contemporary society subjects from an international studies sub-major (SMJ09034); a contemporary society subject and two relevant consecutive language and culture subjects from a specialist country studies sub-major (SMJ09036); or three consecutive language and culture subjects from a language other than English (LOTE) studies sub-major (SMJ09035).

Language and culture subjects and contemporary society subjects may also be taken as non-award studies.

Note: Contemporary Franco, Contemporary Germany, Contemporary Italy, Contemporary Spain and Contemporary Switzerland are offered at the same time and day in Spring semester only; students are thus able to select only one of these subjects in that semester.

Further information on these subjects can be found in the study package directory.
Undergraduate course information

Bachelor of Global Studies
The Bachelor of Global Studies (C010264) (see page 278) is a new transdisciplinary degree focusing on the connections between the political, economic and cultural aspects of global phenomena, within the context of a chosen area of study. The program requires students to be able to engage in complex problem-solving regarding global phenomena from several different perspectives.

All students follow a core program in global studies, select a major, and either two sub-majors or one sub-major and an exchange semester:
- global studies core subjects (48cp)
- major choice (48cp)
- sub-majors and exchange semester (48cp).

In addition, students undergo a domestic work placement within a workplace that deals with global issues and practices in the first semester of the third year of the degree.

Bachelor of Arts in International Studies combined degrees
UTS: International Studies offers the degree of Bachelor of Arts in International Studies through combined degree programs only. Combined degrees have been established between UTS: International Studies and the faculties of Arts and Social Sciences; Business; Design, Architecture and Building; Engineering and Information Technology; Law; Nursing, Midwifery and Health; and Science.

The combined degree with international studies at UTS is designed to produce graduates who are primarily trained in a professional or practical discipline, but who also have a substantial knowledge and appreciation of a non-English-speaking culture.

In addition to their professional degree program, students who undertake the combined degree program follow an international studies major that concentrates on a specific country or region. Students learn about its language and culture, study its contemporary society and spend two semesters studying there.

The international studies component of any combined degree amounts to the equivalent of two years of full-time academic study or 96 credit points. It is studied concurrently with the major discipline of study in an integrated program. Combined degrees have been structured to facilitate the study of two separate programs at the same time.

Each combined degree program has a course coordinator in the appropriate faculty. Inquiries about a specific combined degree program should be addressed to the relevant course coordinator.

Combined degree students enrol at the University through the faculties.

Outlines of the combined degrees with the Bachelor of Arts in International Studies are provided in other sections of this handbook.

Undergraduate students studying for the Bachelor of Arts in International Studies study 96 credit points: four sequential subjects that focus on a relevant language and culture, one subject that introduces students to the study of social change, one subject that examines contemporary society, and two semesters at an institution of higher education in the country of their major:
- language and culture 1–4: four subjects, four semesters (4 x 8cp)
- 976001 Foundations in International Studies: one subject, one semester (8cp)
- contemporary society: one subject, one semester (8cp)
- in-country study 1–2: two subjects, two semesters overseas (2 x 24cp).

Transferring into the combined degree with international studies
Students admitted into a degree at UTS may apply to transfer into a combined degree with international studies via the University’s internal course transfer process towards the end of their first year, provided it is in the same area of study. Transfers between different areas of study need to go through the Universities Admissions Centre. Approval to transfer is made by the student’s faculty. Transferring students need to be aware that places in some majors in the Bachelor of Arts in International Studies are limited, and may already be capped at the time of the proposed transfer, due to the fact that combined degree students select their majors in a ballot that takes place in semester one of their first year of study at UTS. Thus, while every effort is made to accommodate transferring students in their preferred major, it may not always be possible to admit students into popular majors at the time of transfer. Popular majors subject to capping during the first-year ballot process may include France, French-speaking Switzerland and Spain. Note that UTS: International Studies reserves the right to allocate places in majors according to its resources and arrangements with overseas universities.

Majors
The majors available in the Bachelor of Arts in International Studies are listed below. Each major includes 32 credit points (four 8-credit-point subjects) of instruction in language and culture; 8 credit points of study of 976001 Foundations in International Studies; 8 credit points of study of contemporary society; and 48 credit points (two semesters) of study at a university or institution of higher education in the country of the major:
- Argentina (MAJ08954)
- Canada (Québec) (MAJ08933)
- Chile (MAJ08918)
- China (MAJ08919)
- Colombia (MAJ09409)
- France (MAJ08920)
- Germany (MAJ08921)
- Italy (MAJ08923)
- Japan (MAJ08924)
- Latin US (MAJ09380)
- Mexico (MAJ0926)
- Spain (MAJ08927)
- Switzerland (MAJ08932).

Postgraduate course information
UTS: International Studies offers both research and coursework postgraduate degrees.

Progression rules
Postgraduate students are advised that they may be excluded from a course if they exceed the maximum time allowed for completion of that course (rule 10.5 of the Student and Related Rules).

Postgraduate coursework
UTS: International Studies offers the following postgraduate coursework degree programs:
- Graduate Diploma in International Studies (C06106) (see page 400)
- Master of Arts in International Studies (C04262) (see page 384).

These two programs provide opportunities for students from any disciplinary background to study a language and culture other than English and thus add an international dimension to their undergraduate qualification. In particular, the programs enable students to:
- learn or improve their knowledge of the language of the country they choose to study
- learn about contemporary society in the country they choose to study, and
- learn about cultural diversity and social change.

Graduate Diploma in International Studies
Postgraduate students studying for the Graduate Diploma in International Studies (C06106) (see page 400) are required to study 48 credit points, comprising at least two sequential subjects that focus on a relevant language and culture; 979508 Research in International Studies; a Contemporary Society subject; plus two elective subjects.
- language and culture 1–2: two subjects, two semesters (2 x 8cp)
- 979508 Research in International Studies: one subject, one semester (8cp)
- 979xxx Contemporary Society subject: one subject, one semester (8cp)
- approved electives (16cp).
Master of Arts in International Studies

Postgraduate students studying for the Master of Arts in International Studies (C04262) (see page 384) are required to study at least two sequential subjects that focus on a relevant language and culture. Students must also undertake 979508 Research in International Studies; a Contemporary Society subject; plus two elective subjects. Once these six subjects have been completed, students will undertake In-country study 1 (prerequisite subject: 979508 Research in International Studies).

- language and culture 1–2: two subjects, two semesters (2 x 8cp)
- 979508 Research in International Studies: one subject, one semester (8cp)
- 979xxx Contemporary Society subject: one subject, one semester (8cp)
- approved electives (16cp), and
- in the final component: In-country Study 1: one subject, one semester overseas (24cp).

Postgraduate research

UTS: International Studies accepts research students for the following higher degrees:

- Master of Arts in International Studies (C03034) (see page 491)
- Doctor of Philosophy in International Studies (C02039) (see page 478).

Applications for research degree candidature are welcomed from graduates with an interest in the social, political, economic and cultural changes that have taken place in Asia, Europe and the Americas. Students interested in China may choose to write their thesis in Chinese or in English. Students may undertake their candidature either in China or in Australia. UTS: International Studies can supervise students in the fields of modern and contemporary Chinese history, Chinese political economy, social change in the People’s Republic of China, and contemporary Chinese culture.

UTS: LAW

Information for students

Law courses are administered by UTS: Law. The information provided in this section is an introduction to the full range of information that is available and is not intended to be complete. Students are advised to visit UTS: Law and other UTS websites for more comprehensive information.

www.law.uts.edu.au

Location, contacts and inquiries

UTS: Law is located at City campus, Haymarket. Most academic and administrative staff are located in Building 5, City campus, Haymarket, although some staff are located at 645 Harris St, City campus, and at Kuring-gai campus, Lindfield.

CM05B
Building 5, block B
City campus, Haymarket
cnr Quay St and Ultimo Rd
Haymarket NSW 2000

Detailed directions are available at:
www.uts.edu.au/about/mapsdirections

UTS: Law reception
CM05B.3.03
Building 5, block B, level 3
City campus, Haymarket
cnr Quay St and Ultimo Rd
Haymarket NSW 2000
telephone +61 2 9514 3495
fax +61 2 9514 3400

Staff contact details are available from:
http://staffsearch.itd.uts.edu.au/webapps/staffsearch

Postal address

UTS: Law
University of Technology, Sydney
PO Box 123
Broadway NSW 2007
Australia

Student inquiries and course information

UTS: Student Centres provide information and assistance to students and the general public, and are the first point of call for all student and course-related inquiries, including course progression, information and advice, and interpretation of University rules and regulations.

Haymarket Student Centre
CM05C.1
Building 5, block C, level 1
City campus, Haymarket
cnr Quay St and Ultimo Rd
Haymarket NSW 2000
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Faculty structure

The UTS: Law executive is led by the dean and is supported by two associate deans and the faculty manager.

UTS: Law is governed by the Faculty Board in Law which consists of ex officio members, elected staff members and elected student members. The Faculty Board in Law meets quarterly and is the formal decision-making body of UTS: Law. A number of faculty committees report to the Faculty Board in Law.

A UTS: Law Executive Council comprises faculty management and representatives from the legal profession, government and the community. The UTS: Law Executive Council suggests and scrutinises proposed initiatives as well as offering strategic advice and an external focus for UTS: Law.
Faculty policies and procedures

Progression and acceleration

Students may seek permission from the director (students) (by way of e-request) to enrol in subjects totalling more than 28 credit points a semester if:

• there is no timetable clash
• maximum class size is not exceeded
• the student’s academic record indicates that he or she is capable of performing satisfactorily with an increased workload, and
• the student can demonstrate that his or her work and other non-study commitments permit him or her to increase their workload without detriment to their studies.

Note: Students studying the accelerated Juris Doctor (C04236) (see page 354) program can enrol in a maximum of 30 credit points a semester without the permission of the director (students).

In Summer session, students may undertake a total of 12 credit points or less.

UTS: Law cannot guarantee avoidance of timetable and/or examination clashes where students do not follow the standard course progression.

Timetable

The current timetable is available at:
http://timetable.uts.edu.au

Class attendance

Law classes for full-time studies are generally timetabled during the day. Registrations in evening or other classes are subject to availability and UTS: Law does not provide any guarantees in securing preferences.

Study load and class attendance details are available in course duration and attendance (see page 27) in the general information section.

Guide to written communication

Essays and other written work should be prepared in accordance with the guidelines laid down in UTS: Law’s Guide to Written Communication.

Further information and the required assignment coversheet is available at:

Unless advised otherwise by the lecturer, assignments must be typed and must also be properly written with due regard to spelling, punctuation, grammar and syntax.

A lecturer may require the written work to be submitted through Turnitin prior to formal submission and may also request that a copy of the Turnitin report be attached to the written work.

Unless otherwise instructed by the lecturer, all written work should include footnotes or endnotes and a bibliography in the manner set out in the Guide to Written Communication.

Any piece of written work which does not comply with these requirements may be:

• required to be rewritten in proper form
• penalised in marks, or
• rejected without assessment.

Assessment

Lodgement of assignments

All work submitted for assessment should bear a UTS: Law assignment coversheet. Students are required to retain a copy of all assignments submitted. Students who are handing in written work must submit it, with an assignment coversheet attached, in the assignment box located adjacent to the UTS: Law reception (Building 5, block B, level 3). The assignment box is cleared every business day at 6pm during faculty teaching weeks and at 5pm during faculty non-teaching weeks and Summer session. Assignments submitted by fax or email are not accepted by UTS: Law, unless otherwise arranged with the lecturer.

Late work

Any assessment task submitted after 6pm during faculty teaching weeks, or 5pm during faculty non-teaching weeks and Summer session, on the due date of submission will either be rejected without assessment (where the subject outline states that this will be the consequence of an assessment task being submitted after the due time on the due date) or penalised by way of loss of marks unless an extension has been sought and approved by the subject coordinator (after due consideration of any submission made by the academic liaison officer on behalf of special needs students) through a request for extension or application for special consideration.

In the absence of compelling circumstances, no application for a request for extension will be accepted after the due date.

Insofar as there is to be a penalty by way of loss of marks, five per cent of marks for the assessment task will be deducted per day for assessment tasks submitted after the due date. Submission will not be accepted after assessment tasks have been returned to other students.

Plagiarism

Where individual work is required for the purposes of assessment, the copying, unacknowledged use of, or reliance on the work of other individuals without acknowledgment is considered to be cheating/misconduct. The penalties imposed for cheating/misconduct or allowing work to be plagiarised are severe under the University Rules and regulations.

Plagiarism is one of the most serious crimes in the academic community. It indicates an attempt by someone to pass off the words and/or ideas of another as their own. To take any but a few sequential words of another without acknowledgment is plagiarism and tantamount to cheating. It is so treated at UTS: Law.

Experience shows that one of the most common ways for plagiarism to occur is when students work together. It is acknowledged by the academic staff that study groups are an efficient and beneficial method of learning but problems arise when it is extended into the assessment process. UTS: Law expects, in fact demands, that all assignments submitted be the work of the person who is credited with the mark.

It can be an extremely fine line between discussion of an essay topic with another, and collaboration, but where comparisons of various students’ work indicate collaboration this is taken to be plagiarism. Acts of plagiarism are penalised.

Student facilities

UTS: Law library

The library aims to support the teaching, learning and research needs of students and staff at UTS: Law. The law collection consists of print and electronic sources while training and research assistance can be provided. Further information is available at:
www.lib.uts.edu.au

For information or assistance contact the UTS: Business and Law library team at:

Computer labs

UTS: Law provides four computer labs for use by UTS: Law students. Students have access to the full range of Microsoft Office applications, the internet and printers, and are supported by a faculty-based Information Technology Division (ITD) team.

The labs are located at:
CM05B.3.25, CM05B.3.26, CM05B.3.35, CM05B.3.36
Building 5, block B, level 3
City campus, Haymarket

Opening hours: 7.30am–10pm Monday–Friday, 8am–6pm Saturday and Sunday during semester.

In addition, ITD provides computer laboratories for UTS students on all campuses. Further information is available from:
www.itd.uts.edu.au

Law Students’ Society

The UTS Law Students’ Society (LSS) is the largest student-run society on campus. It provides a variety of services to law students and its members ranging from organising social events, educational seminars and mentoring programs, running legal competitions, providing careers information, writing legal and non-legal publications and representing the educational concerns of law students. An important part of this role is being a key communication channel between UTS: Law and the student body including representing student concerns to the Dean where necessary.

The LSS communicates its various events, services, publications and competitions, as well as relevant activities of UTS: Law, to students through its website; social networking sites such as Facebook and Twitter; free fortnightly e-newsletter, The Buzz, which students and staff can subscribe to via the LSS website; and its ‘subject tab’ on UTS Online.
A council of student members, elected by law students in or around October each year, governs the LSS. The council meets on a monthly basis throughout the year with fortnightly meetings of the executive, to review the activities of LSS and options for improvement and reform. Interest and input are encouraged from students, and many of the ideas acted upon originate from members of the LSS.

Social functions are an important part of university life and the LSS regularly organises functions for students. Popular events include the annual orientation camp, first-year drinks, harbour cruise, ‘Perspectives on Law’ dinner, speaker series, law revue, intervarsity sports day, numerous other intervarsity events, informal barbecues and the highlight of the social calendar, the Law Ball.

Services to members include:

- the Brennan Justice and Leadership Program, a joint initiative with the Faculty of Law
- legal competitions such as mooting, client interviewing, negotiation, witness examination and paper presentation
- the LexisNexis Textbook Equity Scheme (a textbook loan program) for financially disadvantaged students
- a Peer Mentoring Program for first-year students, a joint initiative with the Faculty of Law
- the Mallesons Professional Mentoring Program for students wishing to expand their professional network
- a regularly updated database of subject tutors
- a regularly updated database of social justice opportunities
- affiliation with the Australian Law Students’ Association (ALSA), including provision of all ALSA publications to students and sending a UTS delegation to the annual ALSA July Conference
- a quarterly academic publication, The Full Bench, containing student contributions
- an introductory guide to Law School for new students, the Alternative Law Handbook
- careers publications for legal and non-legal graduate opportunities, and
- a Clerkship Seminar Series, Clerkship Networking Evening, and a Careers Networking Evening, a joint initiative with the Faculty of Law.

Location and contact details

A list of council members and their contact details is posted on the LSS website. Alternatively, students can make initial contact with the LSS by emailing the president.

UTS Law Students’ Society
c/o Faculty of Law
PO Box 123
Broadway NSW 2007
CM05A, 1.08
Building 5, block A, level 1, room 8
City campus, Haymarket
cnr Quay St and Ultimo Rd
Haymarket NSW 2000
telephone +61 2 9514 3448
fax +61 2 9514 3427
email president@utsslss.com
www.utsslss.com

Centres within UTS: Law

The Law Research Centre (LRC) aims to foster an environment that: promotes excellence in academic research, serving the community and the professions; contributes to law reform; and assists in the creation of a just and principled society.

Under the umbrella of the LRC, five research networks have been established:

- Health, family and communities
- Intellectual property, media and communications
- Corporate, commercial and tax
- Criminal justice and criminology
- International law, human rights and the environment.

The LRC is the home of the Australasian Legal Information Institute (AustLII) which provides a unique legal research infrastructure for the LRC. AustLII is committed to creating open access to legal knowledge through its research and related activities and has been in operation for 15 years. Also affiliated with the LRC is the Communications Law Centre, an independent, non-profit, public interest centre specialising in communications, media and online law and policy. The centre was established in 1988 and it is now a UTS centre in the Faculty of Law and the Faculty of Arts and Social Sciences.

Anti-Slavery Australia is an award winning centre of the Faculty of Law and the only University based legal, research and policy centre in Australia focused on slavery, trafficking, forced labour, forced marriage and extreme labour exploitation. Anti-Slavery Australia is involved in research, teaching, and working with law students on a range of social justice initiatives.

Industrial training/professional practice

Admission to legal practice in Australia

Admission to the Supreme Court of NSW to practise as a lawyer in New South Wales is based upon the successful completion of an accredited academic legal qualification and an accredited course of practical legal training (PLT).

The UTS Bachelor of Laws (C10124) (see page 179) (LLB) and Juris Doctor (C04236) (see page 354) (JD) are accredited academic legal qualifications.

Practical legal training

The Faculty of Law’s PLT program is accredited by the Legal Profession Admission Board of the Supreme Court of NSW (LPAB). UTS: Law was the first to offer an accredited PLT program in Sydney at a university level. The program comprises subjects which satisfy the competencies required by the Legal Profession Admission Rules 2005 and a practical experience work placement.

Further details regarding the structure of the PLT program can be obtained from a UTS Student Centre.

Practical experience

A compulsory and integral part of the PLT program is completion of 7541 Practical Experience work placement. Students must undertake an approved 16 weeks of full-time, or equivalent part-time, work placement. Further information regarding completion requirements is available from the practical experience guidelines and rules at: www.law.uts.edu.au/practical/experience

International law graduates

Students who have been admitted to practise as a lawyer in a country outside Australia should have their legal qualification assessed by the Legal Profession Admission Board (LPAB) (www.lawlink.nsw.gov.au/lpab)

UTS: Law offers two courses to allow lawyers from a common law background to meet the LPAB requirements to practise law in Australia. Depending on the number of subjects required by the LPAB, candidates need to complete one of the following courses:

- Graduate Certificate in Australian Law (C11211) (see page 458) requires the completion of four set subjects (30 credit points) and subject substitution is available for one subject only where it is approved. This course particularly suits lawyers from Canada, USA and the UK.
- Graduate Diploma in Australian Law (C07073) (see page 411) is designed specifically to meet the requirements of the LPAB assessment. The course is designed for subject choices to be tailored to meet the needs of individual students in line with the LPAB requirements.

To qualify as a lawyer in New South Wales the above courses need to be followed by enrolment in a practical legal training (PLT) program, which may be completed at UTS by enrolment in the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Students from a non-common law background may be required to enrol in the Juris Doctor (C04236) depending on the number of subjects required by the LPAB.

The Faculty of Law’s PLT program is accredited by the Legal Profession Admission Board (LPAB). UTS: Law was the first to offer an accredited PLT program in Sydney at a university level. The program comprises subjects which satisfy the competencies required by the Legal Profession Admission Rules 2005 and a practical experience work placement.

Further details regarding the structure of the PLT program can be obtained from a UTS Student Centre.

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Students from a non-common law background may be required to enrol in the Juris Doctor (C04236) depending on the number of subjects required by the LPAB.

International lawyers who have received LPAB assessment of their law qualification and would like to receive a study plan which best suits their needs from courses offered by UTS: Law are invited to send a scanned copy of the assessment to the Haymarket Student Centre at: Ask UTS www.ask.uts.edu.au

Bar exams

Students who wish to pursue a career as a barrister can find information about education, training and professional development from the NSW Bar Association at: www.nswbar.asn.au
Application and admission

International candidates who wish to enrol in one of the above courses can find information about the application process and due dates for application at:

www.uts.edu.au/international/prospective/studying/apply

Information about fees for international students is available at:

www.sau.uts.edu.au/fees/international

Local students lodge applications via UAC.

Admission to postgraduate law courses is available twice a year in Autumn and Spring semesters. Juris Doctor, Master of Legal Studies, Graduate Diploma in Legal Studies, Graduate Diploma in Legal Practice and Graduate Certificate in Legal Practice students may also commence in Summer session.

Law postgraduate information sessions

Before each semester UTS: Law holds a series of postgraduate information sessions that provides a good opportunity for potential candidates to:

• receive further information about postgraduate courses
• seek advice from senior academic and administrative staff
• submit a direct application for postgraduate coursework study at UTS: Law.

Sessions are held throughout the year. Information and registration are available from UTS: Law before each information session at:

www.law.uts.edu.au/events

Graduate employment and summer clerkship programs

UTS: Law participates in graduate employment and summer clerkship programs in conjunction with major Sydney law firms and government departments.

The programs were devised in 1980 and are generally open to penultimate and final-year law students who are interested in working in one of the large law firms or government organisations. Students who participate develop a greater understanding of employment opportunities and legal experience while adding detail to their curriculum vitae.

UTS: Law, in conjunction with the UTS Careers Service and UTS Law Students’ Society, organises a range of support services for interested students within application timelines each year.

Further information on support services, guidelines and key dates are available at:

• Graduate employment: www.law.uts.edu.au/careers/graduate
• Summer clerkship: www.law.uts.edu.au/careers/clerkship

Cross-disciplinary subjects

UTS: Law offers a range of cross-disciplinary law subjects — studies in various strands of the law for students not undertaking a law qualification but who wish to become familiar with the law as it affects their chosen profession. Through its cross-disciplinary program, UTS: Law offers subjects for students in UTS: Business; UTS: Design, Architecture and Building; UTS: Engineering and Information Technology; UTS: Health; and UTS: Science.

Cross-disciplinary subjects enrol in UTS: Law subjects through their home faculty and any inquiries should be made in the first instance to the UTS Student Centre.

Further information is available from:

telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Majors and sub-majors offered to students from other faculties

Majors

The following law majors are available within courses from other UTS faculties.

• Master of Business Administration (C04018)
  – Business Law (MAJ09362)
• Bachelor of Business (C10020/C10021/C10026/C10027)
  – Business Law (MAJ09401)
• Bachelor of Global Studies (C10264)
  – Legal Studies (MAJ09399)

Sub-majors

The following law sub-majors are available within courses from other UTS faculties.

• Bachelor of Business (C10020/C10021/C10026/C10027)
  – Business Law (SMJ09030)
• Taxation Law (SMJ09033)
• Master of Business Administration (C04018)
  – Business Law (SMJ09037)

Some courses from other UTS faculties may also include law subjects not listed under any of the above majors and sub-majors; students should check the handbook entry for the course in which they are enrolled for further details or contact the appropriate UTS Student Centre.

Undergraduate course information

UTS: Law offers a range of bachelor’s degrees (see page 13), from the stand-alone Bachelor of Laws (C10124) (see page 179) to Bachelor of Laws degrees that can be combined with a degree in business, communication, engineering, information technology, international studies or science. Whether students are focused on studying the law on its own, or are looking to expand their qualifications and career opportunities with a combined degree, UTS: Law offers practical, work-ready courses with the practical legal training (PLT) program option to get students qualified sooner.

Applications

Offers to undergraduate UTS: Law courses are based on academic merit. Further information is available at:

www.uts.edu.au/study/undergrad.html

Recommended reading prior to entry

Patrick Keyzer’s Legal Problem Solving: A Guide for Law Students (published by LexisNexis Butterworths) or A Career in Law edited by Jim Corkery (published by Federation Press) can be purchased from the Co-op Bookshop, the Sydney Law Cooperative Bookshop, LexisNexis Butterworths or the Law Book Company.

Rules and procedures

Subjects

UTS: Law timetables undergraduate subjects over three teaching periods: Autumn semester, Spring semester and Summer session. The full range of core and option subjects that may be timetabled can be found under each of the course entries.

Core law subjects

All core law subjects are taught in both Autumn and Spring semesters. Core law subjects are timetabled in the day and repeated in the evening.

Option subjects

A range of option subjects are taught in both Autumn and Spring semesters and during Summer session. However, not all option subjects are timetabled every semester and some option subjects are only offered once every two years. Timetabled option subjects are offered subject to sufficient student interest.

Subject descriptions

Descriptions of the law subjects available are provided in subjects (see pages 680–1039).

In order to assist students with understanding the interrelationships of the various option subjects, their general orientation and to make informed choices, option subjects can be classified into the groups listed below.
Credit recognition

Credit based on previous studies may be granted within UTS: Law's undergraduate degrees, subject to University Rules and UTS: Law guidelines. The granting of exemptions is at the discretion of the associate dean (teaching and learning). All students seeking credit for previous studies must lodge an application to the Haymarket Student Centre prior to enrolment. Information in relation to applying for credit, including the precedent list, can be found at:

www.law.uts.edu.au/cr

Inquiries

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Law subjects

Students may be able to obtain exemption from law subjects (core law, law option and practical legal training subjects), up to a maximum of 48 credit points, if they are able to satisfy the Faculty Board in Law that a comparable course of study has been successfully undertaken as a Bachelor of Laws subject at another recognised university.

To verify this, if the subject upon which the student is basing their credit recognition application does not appear on the precedent list, the student must provide a transcript of their academic record and a detailed subject outline, together with the subject reading guide that was current at the time of study, for assessment. Students who have undertaken a law subject at another university, either in the year before or after that which is published on the precedent list, may seek an exemption without supplying the full subject outline as part of their credit recognition application.

Exemptions for law subjects are only granted to students on the basis of equivalent subjects completed as part of a law degree offered by a law school at a recognised university.

Exemptions are not granted on the basis of studies completed through the Law Extension Committee of the Supreme Court (LPAB). As a general rule, exemptions for law subjects are not given if the subject upon which the student is basing their application for credit recognition was studied more than six years ago. The time period indicated by the 'six-year rule' is calculated from the date the subject was successfully completed to the date when it is due to be undertaken at UTS: Law.

However, the Faculty Board in Law shall always retain discretion to waive the application of the rule in cases where there is additional evidence of work or study experience. Indeed, in subjects where there have been significant recent changes in the law, an exemption may not be granted even though the subject was successfully completed less than six years ago. Currently, credit recognition for practical legal training (PLT) subjects has a time limit of three years.

Apart from PLT subjects, a student who transfers from a law degree at a recognised university into the Bachelor of Laws at UTS, and unsuccessfully applies for an exemption from 70115 Perspectives on Law and/or 70120 Legal Method and Research because the completion of the introductory law subject(s) undertaken at the other university were insufficient to grant an exemption, can request in writing to the director (students) to have their application reconsidered.

For 70115 Perspectives on Law, students must demonstrate that they have completed subjects covering contracts, criminal law, torts and constitutional law within the other university's law degree. Alternatively, the director (students) may approve an exemption from 70115 Perspectives on Law if they believe that the student has acquired sufficient knowledge from the subjects completed at the other university to justify the exemption.

− For 70120 Legal Method and Research, students must demonstrate that they have completed subjects at the other university which collectively have a sufficient focus on legal method and research to justify an exemption.

− If a student is unable to obtain an exemption from a UTS: Law core subject on the basis of having completed a similar core subject at another university, because the content of the subject completed at the other university was insufficient to warrant an exemption from the corresponding UTS: Law core subject, the student cannot use the completion of that similar core subject undertaken at the other university as the basis for an exemption from an unspecified option within a law course at UTS.

− Students enrolled into courses that require the completion of 70115 Perspectives on Law on can apply for an exemption from this subject on the basis of completing a Master of Legal Studies (C04147) (see page 330) at UTS: Law or equivalent at another university.

Non-law subjects

It is possible to obtain exemptions for non-law option subjects in the Bachelor of Laws if students have completed a bachelor's degree, advanced diploma or diploma course from a recognised university. The maximum exemptions that can be granted on the basis of having completed a course are 48 credit points for a bachelor's degree (three years, full time). Students with an incomplete degree, a completed advanced diploma or diploma are granted credit points on a pro rata basis. No exemptions can be sought for a partially completed diploma or advanced diploma. These exemptions are not permitted in combined degree courses.

Students applying for credit recognition on the basis of a single, completed prior degree may be granted up to 48 credit points of exemptions for the general elective choice block of the straight Bachelor of Laws or, if the prior study was relevant, up to 48 credit points of exemptions from law subjects.

Concurrent study at another university

Subject to approval by UTS: Law, students may apply to undertake elective subjects in undergraduate law courses at other universities for credit towards an unspecified option within their course at UTS. A concurrent studies application consists of a cover sheet, subject outline(s) for the proposed subject(s), and a personal statement explaining the student's motivation for undertaking concurrent study. Subject outlines must detail the academic content, attendance and assessment requirements, and the reading guide of the subject(s) proposed to be completed. A complete application should be submitted at the Haymarket Student Centre before applying to the other institution. Subjects completed concurrently at another institution without prior approval risk not being credited to the student's course at UTS.

− Students cannot undertake core subjects on a concurrent basis.

− Students cannot undertake options on a concurrent study basis if UTS: Law offers the equivalent subject during the proposed semester.

− Students must complete a minimum of 50 per cent of the credit point value of their course at UTS.

The concurrent studies application form is available at:

www.sau.uts.edu.au/forms

Internal course transfers

UTS students who transfer into the Bachelor of Laws from an incomplete UTS combined law degree may receive exemptions on a pro-rata basis, to a maximum of 48 credit points, from non-law subject options for subjects which have been completed as part of their previous UTS studies.

Honours

It is possible for students to gain an award with honours in the Bachelor of Laws degree or the law component of combined degrees. An additional year of study is not required. To qualify for honours, a student must complete 76040 Research Thesis, as an option subject of 6 credit points within the degree. This subject forms part of the credit points required for degree completion. 76040 Research Thesis has requirements that students must comply with in addition to the Honours Regulations (below). Further details are available in the online subject description.
The Honours Regulations are:

1. Awards
1.1 Awards of the Law degree or the Law component of a combined degree shall be classified as follows:
   a. degree (with first class honours)
   b. degree (with second class honours), and
   c. degree.
   1.2 Award of the degree with second class honours shall not be graded.

2. Requirements of honours
2.1 To qualify for an award of the degree with honours a student shall:
   a. successfully complete 76040 Research Thesis
   b. subject to requirements below, obtain an honours mark, calculated in accordance with the formula 'sum of all' (UTS law subject credit points multiplied by mark) divisible by the 'sum of all law subject credit points' such that:
      i. for first class honours: no less than 75.00
      ii. for second class honours: in the range of 70.00 and 74.99
      (note that in calculating the honours mark, rounding occurs to two decimal places)
   c. not fail any subject after the first semester of study
   d. successfully complete not less than 96 credit points of law subjects within UTS: Law
   e. for the purpose of the calculation in 2.1(b), students may discount up to three of their worst subjects provided that at least 12 UTS Bachelor of Laws subjects are included in the calculation, and
   f. a student's honours mark shall include the mark obtained by the student in 76040 Research Thesis notwithstanding that such a mark might be one of their worst subjects.

2.2 In exceptional circumstances the director (students) may modify or dispense with the requirements of regulation 2.1, subject to appeal to the Faculty Board in Law.

To be eligible for a University medal, an undergraduate student must have achieved the highest first class honours mark in the graduating cohort.

International exchange program
UTS: Law participates in the international student exchange program administered by UTS: International. Through the program, it is possible to undertake the following study options at overseas exchange partner universities:
- three or four law or non-law subject options from CBK90300 Electives (Law), or
- three law subjects from CBK90592 Options, or
- four law subjects from CBK90507 Options (Law) (if not using PLT as part of their degree).

To be eligible for the program, students should have a credit average or better and have completed 68 credit points of core subjects including 70517 Equity and Trusts before going overseas. The number of places is strictly limited.

Results achieved in study overseas are recorded as a pass or fail grade without a mark. It should be noted that the pass/fail results for exchange subjects are excluded from the calculation of a GPA and in the calculation for honours.

Information and application packs are available from UTS: International. Further information is available at: www.uts.edu.au/international/exchange

Postgraduate course information
The UTS: Law postgraduate program has grown dramatically in recent years. Postgraduate course offerings are continuously being updated to ensure they are aligned with and meet the needs of the profession and the community.

Close student interaction between the legal profession and UTS: Law offers students a first-class education and a marketable postgraduate legal qualification. Classes are taught by a mix of practising professionals and full-time academic staff who ensure students gain specialised knowledge and training within their degrees.

UTS: Law strives to meet the expectations of its students to foster a collegial environment in which both academics and students are driven by a commitment to outstanding intellectual achievement.

Internal course transfer
Students may apply to articulate up or down between graduate certificates, graduate diplomas and master's programs, within the same area of study. Students should apply for an internal course transfer before the program they are currently enrolled in is completed. Appropriate successfully completed subjects are credited to the new course if the transfer is approved.

Students are also permitted to apply for an internal course transfer across postgraduate courses of the same level. Only completed subjects relevant to the new course can be credited if the transfer is approved. Students are not permitted to apply for an internal course transfer between undergraduate and postgraduate courses.

Further information is available at: www.sau.uts.edu.au/enrolment/course/transfer/continuing.html

Credit recognition
Credit recognition based on previous studies may be granted subject to University Rules and UTS: Law guidelines.

The granting of exemptions is at the discretion of the associate dean (teaching and learning). All students seeking credit recognition based on previous studies must lodge an application to the Haymarket Student Centre prior to enrolment.

Information on applying for credit recognition based on previous studies, including the precedent list, is available at: www.law.uts.edu.au/ cr

Students may be able to obtain exemption from law subjects if they are able to satisfy the Faculty Board in Law that a comparable course of study has been successfully undertaken at another recognised university.

To verify this, if the subject upon which the student is basing their application for credit recognition does not appear on the precedent list, the student must provide a transcript of his or her academic record and a detailed subject outline, together with the subject reading guide that was current at the time of study, for assessment. Students who have undertaken a law subject at another university, either in the year before or after that which is published on the precedent list, may seek an exemption without supplying the full subject outline as part of their credit recognition application.

Exemptions for core subjects, as well as practical legal training subjects, are only granted to students on the basis of equivalent subjects completed as part of a law degree leading to professional practice and offered by a law school at a recognised university.

Exemptions for postgraduate law option subjects are only granted to students on the basis of study undertaken as part of a postgraduate law course offered by a law school at a recognised university.

Exemptions are not granted to students who base their application for credit recognition on the completion of cross-disciplinary subjects.

Exemptions are not granted on the basis of studies completed through the Law Extension Committee of the Supreme Court (LPAB).

The following limits apply to credit granted to postgraduate courses of three years, or less, full time:

1. from a completed postgraduate degree, a maximum of one quarter of the credit-point value of the current UTS course
2. from an incomplete postgraduate degree, a maximum of half of the credit-point value of the current UTS course.

Notwithstanding 1 or 2 above, the maximum overall amount of credit granted for a UTS: Law postgraduate coursework course shall not exceed one half of the credit-point value of that course.

Students who completed 8-credit-point postgraduate electives as part of their Juris Doctor (C04236) (see page 354) or Doctor of Juridical Science (C02027) (see page 474), up to a maximum of 24 credit points, are able to satisfy the Faculty Board in Law that a comparable course of study has been successfully undertaken at another recognised university.

As a general rule, exemptions for law subjects are not given if the subject upon which the student is basing their application for credit recognition was studied more than six years ago. The period in the ‘six-year rule’ is calculated from the date the subject was successfully completed to when it is due to be undertaken at UTS: Law.

The Faculty Board in Law shall always retain discretion however to waive the application of the rule in cases where there is additional evidence of work or study experience. Indeed, in subjects where there have been significant recent changes in the law, an exemption may not be granted even though the subject was successfully completed less than six years ago.
Applications for credit recognition for practical legal training subjects have a time limit of three years.

A student who transfers from a law degree at a recognised tertiary institution into a Graduate Diploma in Legal Studies (C07074) (see page 412), Master of Legal Method and Research before completing the introductory law subject(s) undertaken at the other university was insufficient to warrant an exemption from the corresponding UTS: Law core subject. Alternatively, the director (students) may approve an exemption from the introductory law subject(s) undertaken at the other university to justify the exemption.

Subject to approval by UTS: Law, students may apply to undertake subjects in postgraduate law courses at other universities for credit

Concurrent study at another tertiary institution

Students who have been admitted to the Master of Laws (C04143) (see page 328) and who have completed a Juris Doctor (C04236) (see page 354) at UTS, may apply to undertake a subject at another university which collectively have a sufficient focus on legal method and research to justify an exemption.

If a student is unable to obtain an exemption from a UTS: Law core subject on the basis of having completed a similar core subject at another university, because the content of the subject completed at the other institution was insufficient to warrant an exemption from the corresponding UTS: Law core subject, the student cannot use the completion of that similar subject undertaken at the other university as the basis of an exemption from an unspecified elective within a postgraduate law course at UTS.

Students who have been admitted to the Master of Laws (C04143) and who have completed a Juris Doctor (C04236) at UTS, after transferring to this course from the Master of Law and Legal Practice, are able to claim:

- an 8-credit-point unspecified law elective exemption where the student completed a minimum of two law electives (12 credit points) within the Master of Law and Legal Practice that were not credited to their Juris Doctor study plan
- a 16 credit-point unspecified law elective exemption where the student completed a minimum of three law electives (18 credit points) within the Master of Law and Legal Practice which were not credited to their Juris Doctor study plan
- a 24 credit-point unspecified law elective exemption where the student completed a minimum of four law electives (24 credit points) within the Master of Law and Legal Practice which were not credited to their Juris Doctor study plan.

Further information is available at:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.uts.edu.au

Concurrent study at another tertiary institution

Juris Doctor with honours

It is possible for students to gain an award with honours in the Juris Doctor (pre-2012: C04236v1; current: C04236) (see page 354), and the Juris Doctor component of the combined Juris Doctor Master of Business Administration (C04250) (see page 374).

An additional year of study is not required. See the rules for the course you are enrolled in, below.

Transitional arrangements for students who commenced study prior to 2012

In 2011 the Faculty of Law amended the honours requirements for the Juris Doctor. All students who commenced studies prior to 2012 and who are due to complete the requirements of the Juris Doctor (C04236v1) in Spring 2012 or later, may choose the means by which their eligibility for honours is determined. They can choose either:

1. the original honours requirements for the course, i.e. to qualify with honours, candidates must attain a weighted average mark of 80 per cent across all subjects attempted calculated in accordance with the formula ‘sum of all’ (UTS law subject credit points multiplied by mark) divisible by the ‘sum of all law subject credit points’,

2. the pre-2012 requirements as set out in Honours regulations, pre-2012 below.

Juris Doctor, pre-2012

To qualify for honours in the Juris Doctor (C04236v1), students who commenced studying the course prior to 2012 must complete 77740 Research Paper, as a 6-credit-point option subject in the degree.

To be eligible to undertake 77740 Research Paper, students must successfully complete no less than 96 credit points within UTS: Law, including 70717 Evidence and Criminal Procedure; and attain a minimum weighted average mark of 73.00 across all subjects attempted.

The research subject forms part of the credit points required for degree completion.

Honours regulations, pre-2012

The Honours regulations for students who commenced studying the Juris Doctor (C04236v1) prior to 2012 are:

1. Awards

   1.1 Awards of the Juris Doctor degree shall be classified as follows:

   a. degree (with honours), and

   b. degree.

   2. Requirements of honours

   2.1 To qualify for an award of the degree with honours a student who commenced studying prior to 2012 shall:

   a. successfully complete 77740 Research Paper

   b. subject to requirements below, obtain a student’s honours mark of no less than 75.00, calculated as a weighted average mark received in all subjects completed in accordance with the formula ‘sum of all’ (UTS law subject credit points multiplied by mark) divisible by the ‘sum of all law subject credit points’

   c. not fail any subject after the first semester of study

   d. a student’s honours mark shall include the mark obtained by the student in 77740 Research Paper.

2.2 In exceptional circumstances the director (students) may modify or dispense with the requirements of regulation 2.1, subject to appeal to the Faculty Board in Law.

Juris Doctor, current

To qualify for honours in the current Juris Doctor (C04236) (see page 354), students who commenced study in the course from 2012 onwards must complete 78102 LLM Project by Research as an 8-credit-point option subject within the degree.

To be eligible to undertake 78102 LLM Project by Research, students must successfully complete not less than 96 credit points within UTS: Law, including 70717 Evidence and Criminal Procedure; and attain a minimum weighted average mark of 73.00 across all subjects attempted.

The research subject forms part of the credit points required for degree completion.
Honours regulations, current
The Honours regulations for the current Juris Doctor, current (C04236) (see page 354) are:
1. Awards
1.1 Award of the Juris Doctor degree shall be classified as follows:
   a. degree (with honours), and
   b. degree.
2. Requirements of honours
2.1 To qualify for an award of the degree with honours a student shall:
   a. successfully complete 78102 LLM Project by Research
   b. subject to requirements below, obtain an honours mark of no less than 75.00, calculated as a weighted average mark received in all subjects, in accordance with the formula ‘sum of all’ (UTS law subject credit points multiplied by mark) divisible by the ‘sum of all law subject credit points’
   c. not fail any subject after the first semester of study
   d. a student’s honours mark shall include the mark obtained by the student in 78102 LLM Project by Research.
2.2 In exceptional circumstances the director (students) may modify or dispense with the requirements of regulation 2.1, subject to appeal to the Faculty Board in Law.

Juris Doctor Master of Business Administration
To qualify for honours in the Juris Doctor Master of Business Administration (C04250) (see page 374), a student must complete 78102 LLM Project by Research as an 8-credit-point option within the Juris Doctor component of the degree.

To be eligible to undertake 78102 LLM Project by Research, students must successfully complete not less than 96 credit points within UTS: Law, including 70717 Evidence and Criminal Procedure, and attain a minimum weighted average mark of 73.00 across all subjects attempted.

The research subject forms part of the credit points required for degree completion. 78102 LLM Project by Research has requirements that students must comply with in addition to the honours regulations for the Juris Doctor component of the Juris Doctor Master of Business Administration (below). Further details are available in the online subject description.

Honours regulations, JD MBA
The Honours regulations for the Juris Doctor component of Juris Doctor Master of Business Administration (C04250) (see page 374) are:
1. Awards
1.1 Award of the Juris Doctor component of the Juris Doctor Master of Business Administration shall be classified as follows:
   a. degree (with honours), and
   b. degree.
2. Requirements of honours
2.1 To qualify for an award of the degree with honours a student shall:
   a. successfully complete 78102 LLM Project by Research
   b. subject to requirements below, obtain an honours mark, of no less than 75.00, calculated as a weighted average mark received in all subjects completed in the Juris Doctor
   c. not fail any subject after the first semester of study
   d. a student’s honours mark shall include the mark obtained by the student in 78102 LLM Project by Research.
2.2 In exceptional circumstances the director (students) may modify or dispense with the requirements of regulation 2.1, subject to appeal to the Faculty Board in Law.

International exchange program: Juris Doctor
Juris Doctor students participate in the international exchange program administered by UTS: International. Through the program, it is possible to undertake three law subjects from CBK90592 Options at overseas exchange partner universities.
To be eligible for the program, students should have a credit average or better and have completed 68 credit points of core subjects, including 70517 Equity and Trusts before going overseas. The number of places is strictly limited.

Results achieved in overseas study are recorded as a pass or fail grade without a mark. It should be noted that the pass/fail results for exchange subjects are excluded from the calculation of a GPA and in the calculation for honours.

Information and application packs are available from UTS: International. Further information is available at: www.uts.edu.au/international/exchange

Mandatory continuing legal education
Participation in postgraduate study may entitle lawyers to mandatory continuing legal education (MCLE) points. If this particular educational activity is relevant to students’ immediate or long-term professional development needs, particularly those related to the practice of the law, they may claim one ‘unit’ per hour of attendance (excluding refreshment breaks).

Further information regarding MCLE points is available from the Law Society of NSW:
www.lawsociety.com.au

Postgraduate coursework
UTS: Law offers a range of postgraduate coursework degrees (see page 14) to suit both law graduates and graduates of other disciplines.

UTS: Law prides itself on its unique specialisations, flexibility and vocational relevance. Graduate certificate, graduate diploma and master’s programs in law and legal studies, and specialised programs in communications law, intellectual property law, international law, practical legal training and dispute resolution are available.

Courses
Coursework programs are normally structured as follows:
   • master’s degrees: 48 credit points
   • graduate diplomas: 36 credit points
   • graduate certificates: 24 credit points.

Exceptions to this include the Juris Doctor (C04236) (see page 354) (144 credit points), Juris Doctor Master of Business Administration (C04250) (see page 374) (192 credit points), Graduate Diploma in Australian Law (C07073) (see page 411) (48 credit points), Graduate Certificate in Australian Law (C11211) (see page 458) (30 credit points), and the Graduate Certificate in Legal Practice (C11128) (see page 444) (12 credit points).

Subjects
UTS: Law timetables subjects over three teaching periods: Autumn semester, Spring semester and Summer session. The full range of core and optional subjects available can be found under each of the course entries.

Core law subjects
All core subjects are taught in Autumn and Spring semester and are timetable during the day and are repeated in the evening.

Optional law subjects
A range of optional law subjects is taught in each semester. However, not all optional subjects are timetabled every semester and some optional subjects are offered on a two-yearly basis only. Timetabled optional subjects are offered subject to sufficient student interest.

Postgraduate progression
In accordance with rules 10.2.3 and 10.4.1, a graduate certificate, graduate diploma or master’s candidate shall be excluded if they fail to maintain a minimum rate of progress. To maintain a minimum rate of progress, a student must not fail:
   • two subjects in a graduate certificate
   • three subjects in a graduate diploma
   • four subjects in a master’s degree, or
   • five subjects in the JD, JD MBA, or MLLP.

Students may appeal against such exclusion under rule 10.8.
Postgraduate students are advised that they may be excluded from a course if they exceed the maximum time allowed for completion of that course (see rule 10.5).
Contacts and inquiries

Haymarket Student Centres
CM05B.5 – Building 5, block B, level 5
CM05C.1 – Building 5, block C, level 1
City campus, Haymarket
cnr Quay St and Ultimo Rd, Haymarket
telephone 1300 ask UTS (1300 275 887)
Ask UTS www.ask.uts.edu.au

 Majors
UTS: Law offers seven major areas of study within the Master of Laws (C01143) (see page 328). Students in this course elect to complete study within a major, sub-major or alternatively subjects from across the major areas. Students must nominate a major or sub-major for it to appear on their academic transcript. Students who do not nominate a major and subsequently meet the requirements for a major must submit an e-request before graduation. Majors are available in:

- corporate and commercial law
- dispute resolution
- global business law
- intellectual property
- international law.

Postgraduate research

Higher research degrees provide an opportunity for law and non-law graduates to make a major contribution to knowledge by undertaking advanced-level research through the exploration of ideas and issues in a thesis. UTS: Law offers a Doctor of Philosophy in Law (C02026) (see page 475), the ‘professional doctorate’, the Doctor of Juridical Science (C02027) (see page 474) and a Master of Laws (Research) (C03024) (see page 488). These degrees are particularly valuable for students wishing to pursue a career in research or academia. Entry is on the basis of proven research achievement.

Information about potential supervisors and areas of supervision is available at:

Student research is coordinated through the associate dean (research) and the faculty research officer and governed by the Research Management Committee (RMC) and the Higher Degree Committee. The faculty research officer can be contacted for further information about the faculty’s research and higher degree research program.

Credit recognition

The granting of exemption for higher degree by research courses is at the discretion of the associate dean (research).

Support for research students

In addition to the support provided by the UTS Library and the UTS Graduate Research School, UTS: Law provides a range of facilities for higher-degree research candidates such as research support funding, study spaces, printing access, email and internet access.

Contacts and inquiries

Faculty research officer
telephone +61 2 9514 3753
fax +61 2 9514 3400
email law.research@uts.edu.au
www.law.uts.edu.au

Research interests of staff members

There is a diverse range of staff research interests within the faculty. The faculty has established research networks and interest groups which represent the key areas of research strength.

Information on supervision and research interests of staff is available at:

Staff contact details are available at:
Professional practice
Students of the Master of Pharmacy undertake three clinical placement subjects to gain experience in the professional pharmacy environment. The placement program includes experience in community pharmacy, hospital pharmacy and the pharmaceutical industry.

The clinical placement subjects are further supported by the professional services subjects which prepare students for the varying roles in the profession.

Subjects
The Master of Pharmacy is a structured, two-year, full-time degree. In the final year of the program students are given the opportunity to undertake two electives from other faculties of the University in areas such as business management, health policy and the sciences.

Postgraduate course information

Postgraduate coursework
UTS: Pharmacy currently offers the Master of Pharmacy (C04252) (see page 376), which is a graduate-entry degree for students who have completed a bachelor’s degree in a relevant science discipline (e.g. medical science) who wish to become registered pharmacists. The course is highly integrated, with the content and learning outcomes of each subject linked with the others in the course to provide students with continuity of learning and a thorough understanding of the sciences underpinning pharmacy practice and experience in applying concepts learnt in real-life situations. The course aims to incorporate educational technologies to facilitate student-based learning and reflect the postgraduate level of learning. Problem-based learning is also a major component of the course, preparing students for the workplace.

Contacts and inquiries
Initial inquiries regarding the Master of Pharmacy degree should be made to the Building 6 Student Centre:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Postgraduate research
UTS: Pharmacy provides opportunities for graduates of pharmacy and related disciplines to develop their research career by undertaking a higher degree by research, the Doctor of Philosophy (C02056) (see page 376), which is a graduate-entry degree for students who have completed a bachelor’s degree in a relevant science discipline (e.g. medical science) who wish to become registered pharmacists. The Master of Pharmacy has been developed by leading pharmacy teachers and researchers, with the input of a dedicated educational designer. The course is highly integrated, with the content and learning outcomes of each subject linked with the others in the course to provide students with continuity of learning and a thorough understanding of the sciences underpinning pharmacy practice and experience in applying concepts learnt in real-life situations. The course aims to incorporate educational technologies to facilitate student-based learning and reflect the postgraduate level of learning. Problem-based learning is also a major component of the course, preparing students for the workplace.

Contacts and inquiries
Initial inquiries regarding research degrees should be directed to: email pharmacy@uts.edu.au

Research profile
UTS: Pharmacy research covers a broad range of areas including cancer drug resistance, quality use of medicines, pharmacy practice and consumer behaviour. Research staff are international leaders in their area of research and their work is supported by several large grants, including those from the NHMRC and the Cancer Council.

UTS: SCIENCE

Information for students
UTS: Science publishes a specific course guide at the beginning of each academic year. The course guide is available from the Building 6 Student Centre.

UTS: Science’s website provides information on its news, events and operations:
www.science.uts.edu.au

Location, contacts and inquiries
UTS: Science is located at City campus, Broadway, in Buildings 1 and 4. Main locations are:

• CB04.4.48F: Dean of Science
• CB04.4.48J: Associate Dean (Teaching and Learning)
• CB04.4.48E: Associate Dean (Research and Development)
• CB04.4.48L: General Manager, Faculty Administration
• CB04.5.23B: General Manager, Technical Services
• CB04.4.48: Academic Administration team
• CB04.4.48D: Research Development team
• CB04.4.48: Financial team
• CB04.4.50: Marketing team

All student inquiries should be directed to:

Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
Ask UTS www.ask.uts.edu.au

Schools and locations
UTS: Science’s courses are delivered through its five schools. Staff and postgraduate research students within these schools conduct research in its research institutes and centres. The schools are as follows.

School of Chemistry and Forensic Science
Professor Tony Baker
Head of School
CB04.4.31F
telephone +61 2 9514 1764
email Anthony.Baker@uts.edu.au
www.science.uts.edu.au/chemistry

School of Physics and Advanced Materials
Associate Professor Mike Ford
Head of School
CB01.12.27
telephone +61 2 9514 7956
email Mike.Ford@uts.edu.au
www.science.uts.edu.au/physics

School of Mathematical Sciences
Dr Beverley Moore
Head of School
CB01.15.13
telephone +61 2 9514 2236
email Beverley.Moore@uts.edu.au
www.science.uts.edu.au/maths

School of the Environment
Professor William Gladstone
Head of School
CB04.5.49B
telephone +61 2 9514 8272
email William.Gladstone@uts.edu.au
www.science.uts.edu.au/environment

School of Medical and Molecular Biosciences
Professor Ann Simpson
Head of School
CB04.6.39B
telephone +61 2 9514 4097
email Ann.Simpson@uts.edu.au
www.science.uts.edu.au/medical
Learning resource and study centres

UTS: Science operates learning resource and study centres in chemistry, physics and mathematics/statistics. These are drop-in centres staffed by the relevant school for all UTS students to get help with introductory subjects in these areas. Although the emphasis is on the provision of help for first-year subjects, sometimes assistance can be provided for later-year subjects.

Chemistry Learning Centre
Dr Paul Thomas
telephone +61 2 9514 1721
devise Paul.Thomas@uts.edu.au

Physics Learning Centre
Associate Professor Les Kirkup
telephone +61 2 9514 2218
fax +61 2 9514 2219
e-mail Les.Kirkup@uts.edu.au

Mathematics Study Centre
Dr Mary Coupland
telephone +61 2 9514 2241
fax +61 2 9514 2260
e-mail Mary.Coupland@uts.edu.au

Research facilities and institutes

Science research facilities

Through its technology hubs, UTS: Science is repositioning its relationship with the community, industry and government. Expert researchers, scientists and experienced technical staff are supported by world-class instrumentation in a state-of-the-art science building. These technology hubs form a network of niche expertise and platform technologies, providing cutting-edge capabilities, advanced training and high-level services managed in a way that is accessible to both internal researchers at UTS and also external industries, allowing informal access to researchers, links with state and federal research and development schemes and access to world-class national infrastructure.

UTS: Science invites organisations to be stakeholders in our technology hubs in conjunction with research institutes and groups. The technology hubs are:

- Microstructural Analysis Unit
- Biosciences Research Facility
- Chemical Technologies Research Facility
- Environment Research Facility.

These technology hubs are where UTS: Science interacts with industry in pursuit of leading-edge techniques, methodologies and capabilities. Further information on the technology hubs is available from: www.science.uts.edu.au/research/coe

Microstructural Analysis Unit

The Microstructural Analysis Unit (MAU) provides access to a comprehensive array of state-of-the-art materials characterisation and microscopy instrumentation, which is supported by resident professional staff.

MAU has six scanning electron microscopes, four scanning probe microscopes and an X-ray diffractometer. All these instruments are equipped with specialised attachments, such as cathodoluminescence spectroscopy with hot and cold stages, electron backscatter diffraction, electron beam lithography as well as EDS and WDS quantitative X-ray mapping systems. A broad range of equipment for characterising the electrical and optical properties of materials is also available as well as extensive materials fabrication facilities.

All MAU instrumentation are available 24 hours a day, seven days a week, to all staff and students within UTS: Science. External user access is available on a cost recovery basis. MAU also offers accredited training programs in electron microscopy and microanalysis, scanning probe microscopy techniques and X-ray analytical methods.

Inquiries
Associate Professor Matthew Phillips
Director, Microstructural Analysis Unit
telephone +61 2 9514 1620
devise Matthew.Philips@uts.edu.au
www.science.uts.edu.au/mau

Biosciences Research Facility

The Biosciences Research Facility includes an extensive array of instrumentation and support services for research in medical, molecular biology including two high-end specialised core facilities for proteomics and microbial imaging.

Proteomics describes the study of the complete set of proteins (proteome) that is expressed at a given time in a cell, tissue, organ or organism. Modern proteomics requires the integration of a wide range of protein analytical tools and information technologies, to quickly and reliably identify changes in proteins, e.g. altered proteome states associated with disease.

The Proteomics Core Facility (PCF) brings together leading technologies for sample preparation, protein separations, identification and characterisation.

PCF offers services and training in proteomics discovery technologies to Australian and international researchers from academia and industry. PCF has particular expertise in experimental design, custom method development, sample preparation, complex mixture fractionation and protein separations.

The Microbial Imaging Facility (MIF) at UTS has recently been established to provide high-resolution imaging of bacteria, parasites, eukaryotic cells and parasite-host interactions. The facility also has equipment for flow cytometry and biological specimen preparation for optical and electron microscopy.

MIF is comprehensively equipped with sophisticated and state of the art optical microscopes for epifluorescence, deconvolution, confocal and live-cell imaging microscopy.

The star of the facility is the DeltaVision OMX 3D-SIM, a structured illumination microscope for super-resolution imaging, which enables scientists/researchers to view cells and organisms in spectacular detail at a resolution never before possible. It is the only one in Australia, and one of only two commercial units in the world.

Inquiries
Philip Lawrence
telephone +61 2 9514 8356
devise Philip.Lawrence@uts.edu.au
www.science.uts.edu.au/research/coe

Chemical Technologies Research Facility

The Chemical Technologies Research Facility (CTRF) draws from several world-class laboratories, technical and research staff specialising in chemistry and materials science at UTS: Science. CTRF focuses on chemical and biochemical analysis and materials technology. It is equipped to produce and characterise a diverse range of organic and inorganic materials and is supported by a team of over 20 experienced technical staff and researchers. CTRF expertise include the physical and mechanical characterisation of engineering materials, chemical and physical characterisation of forensic and pharmaceutical samples.

CTRF provides services to industry, researchers and the community in these specialised areas.

Inquiries
Dr Ronald Shimmon
telephone +61 2 9514 8260
devise Ronald.Shimmon@uts.edu.au
www.science.uts.edu.au/research/coe

Research strengths and capabilities

UTS: Science has a strong record of research and development, essential to facilitating quality postgraduate research programs. Research grants and funding are very important to the direction and support of postgraduate research. UTS: Science wins a substantial proportion of national and international competitive research grants awarded to UTS annually.

The faculty obtains grants and funding across wide areas of expertise such as in the physical, chemical, forensic, climate change and environmental, biological, biomedical and mathematical sciences.
UTS: Science prides itself on research that engages the interest of the community and industry, and produces outcomes of economic and social benefit.

Further information on the research strengths and areas is available from:
www.science.uts.edu.au/research

UTS: Science’s research strengths are marked by its research institutes and centres, which form a substantial part of the University’s research strengths.

The ithree Institute
The Institute for Biotechnology of Infectious Diseases has recently been re-branded to the ithree Institute (I3) to reflect its new strategic direction and its one-health research focus, where it will take an interdisciplinary approach of infectious ecology — infection, immunity and innovation.

The aim of the institute is to deliver the highest quality research on the biology and control of infectious diseases in humans and animals. I3 research holds the keys to interrupting the lifecycle of pathogens. Located in state-of-the-art laboratories in central Sydney, its facilities include pathogen culture and the DeltaVision OMX 3D-SIM (the only one in Australia). This structured illumination microscope for super-resolution imaging enables scientists and researchers to view cells and organisms in spectacular detail at a resolution never before possible.

It also brings together expertise in molecular biology, cell biology, genetics, bioinformatics and proteomics, chemistry, etc. Its philosophy is to work in partnership with others to deliver world-class scientific discovery and to drive innovation.

I3 also works very closely with the Department of Medical and Molecular Biosciences at UTS: Science to focus its teaching commitments, encourage research-oriented teaching and raise its visibility to UTS students. It also promotes career development of its staff and students.

Inquiries
Professor Ian Charles
Director, The I3 Institute
telephone +61 2 9514 2672
e-mail Ian.Charles@uts.edu.au

www.ithreeinstitute.uts.edu.au

Plant Functional Biology and Climate Change Cluster
The Plant Functional Biology and Climate Change Cluster (C3) was established to demonstrate UTS’s commitment to finding real and accurate solutions to climate change problems.

C3 is a cross-disciplinary research group with the aim to improve and enhance predictions about climate change outcomes. Building on existing key UTS research strengths and resources in terrestrial and aquatic ecosystems, C3 brings together a core group of experts in plant physiologists, ecologists, biologists, remote sensing specialists, and biological and physical modellers.

Working on a regional scale, e.g. forest, coastal and estuarine ecosystems, this unique group’s targeted research approach improves the confidence in scientists’ predictions about climate change. Whether terrestrial or aquatic plants are at the bottom of the list, and more often than not forgotten, by integrating the biological feedback from plants into climate change models, C3 improves their research findings accuracy and usefulness for developing future resource planning strategies to reduce climate change.

C3 also aims to provide an opportunity for the University, and wider community, to connect on issues relating to climate change by fostering interfaculty discussion through forums and seminars.

C3 is currently undergoing a considerable growth in its research capacity and welcomes inquiries from students interested in taking up honours and PhD positions. Some areas of research include ocean acidification, ecosystem and food web modelling, coral bio-energetic, biological invasions and climate change synergies, and Antarctic sea-ice algal communities.

Inquiries
Associate Professor Peter Ralph
Director, Plant Functional Biology and Climate Change Cluster
telephone +61 2 9514 4070
e-mail Peter.Ralph@uts.edu.au

www.c3.uts.edu.au

Institute for Nanoscale Technology
The Institute for Nanoscale Technology’s (INT) core research activities focus on the interaction of light with nano and microscale structures, and on materials chemistry. INT’s research work revolves around, but is not limited to, the following:

- modelling and fundamental understanding of optical, chemical, electrical and structural phenomena at optical and sub-optical wavelengths
- technological development and exploitation of these phenomena to achieve useful results in the communications, architectural and biomedical industries.

The group has also successfully developed a range of efficient analytical and numerical algorithms for a number of important situations and is internationally recognised for the development and application of semi-analytic methods based on multiple techniques, block mode techniques and Green’s function methods.

There is also substantial expertise in computational electromagnetic techniques, particularly the finite element and finite difference time domain methods. Part of the focus of this group is in the design and study of the fundamental physics of photonic crystal devices, micro-structured optical fibres, radiation dynamics of photonic crystal clusters, localisation in random structures, optical biomimetics, plasmon resonances, sensing applications, plasmonic heating and light scattering.

Another area of particular interest is the development of ‘smart’ and energy-efficient coatings for windows.

The aim of the group is to produce graduates with the necessary skills to sustain a vibrant industry. INT ensures that its works are closely tied in with UTS: Science’s undergraduate and postgraduate curriculum.

Inquiries
Professor Michael Cortie
Director, Institute for Nanoscale Technology
telephone +61 2 9514 2208
e-mail Michael.Cortie@uts.edu.au

www.nano.uts.edu.au

Centre for Forensic Science
The Centre for Forensic Science (CFS) was established in 2002 and became a University research centre in 2007. The aim of the centre is to provide high-calibre research, high-quality education, enhancement of professional practice and independent services for the benefit of the community. It brings together world-class academics with different expertise but with a common vision, that is the prevention and solving of crime and terrorism.

Forensic science at UTS is presented as a multidisciplinary methodological applied within a scientific, legal and political structure. One of the prime objectives of the centre is to develop new investigative techniques and also to demonstrate their significance within the legal system and to communicate their meaning to juries and society in general. The centre is the only one of its kind in Australian universities, making it unique, and serves local and national law enforcement agencies, security agencies and the community at large in the application of scientific principles, methods of administration and enforcement of the law.

It also capitalises on UTS: Science’s forensic programs and runs professional short courses and seminars for law enforcement agencies, forensic organisations, practitioners, insurance companies, legal firms, various research institutes and the community.

It has research programs in the areas of fingerprints, questioned documents, trace evidence, fire investigation and analysis, illicit drugs, toxicology, DNA profiling, materials and engineering, statistics and data handling, and artificial neural networks applied to forensic classification.

The centre also offers an independent investigative and consulting service through the UTS commercial company accessUTS Pty Limited.

Inquiries
Professor Claude Roux
Director, Centre for Forensic Science
telephone +61 2 9514 1718
e-mail Claude.Roux@uts.edu.au

www.forensics.uts.edu.au
Centre for Environmental Sustainability

The Centre for Environmental Sustainability (CEnS) aims to generate multidisciplinary, multiscale information that is urgently needed for sustainable natural resource management by providing:

- high-quality innovative research on the tolerance and resilience of our natural terrestrial and riverine systems and biota to human-induced environmental stressors and requirements for remediation and management
- insights into physical/chemical dynamics and ecosystem functions at the mechanistic level for use in modellng landscape and/or catchment processes.

The centre coordinates research programs at honours, master’s and doctoral level. It works closely with the Centre for Ecotoxicology — a joint enterprise between UTS and the NSW Department of Environment, Climate Change and Water with the aim to promote education research and knowledge transfer in the field of ecotoxicology.

The University arm also offers an independent investigative and testing consulting service for industry through accessUTS Pty Limited.

Inquiries
Professor David Booth
Centre for Environmental Sustainability
telephone: +61 2 9514 4053
e-mail: David.Booth@uts.edu.au
www.research.uts.edu.au/FinEco

Cross-faculty research

Centre for Health Technologies

The Centre for Health Technologies (CHT) research team brings together complementary interdisciplinary research skills unique in Australia in the development of innovative medical devices and biotechnology processes for health technology applications.

The focus of CHT is on the study of health and disease processes and the development of new medical devices and advanced biotechnology applications for early detection, diagnosis, treatment and rehabilitation of lifestyle diseases such as cardiovascular disease, diabetes mellitus, neurological disorder and cancer.

The centre’s innovative medical device technologies and biotechnology/biopharmaceutical research programs are currently at the cutting edge of biomedical engineering and biotechnology science, and have already developed several significant biomedical devices and advanced biotechnology processes.

Further information is available from:
www.research.uts.edu.au/FinEco

Quantitative Finance Research Centre

The Quantitative Finance Research Centre (QFRC) is a joint initiative of UTS: Business’s School of Finance and Economics and UTS: Science’s Department of Mathematical Sciences. QFRC is a recognised key UTS research centre.

QFRC encompasses the largest and pre-eminent concentration of research strength in quantitative finance in Australia, and is recognised as one of the leading centres for this discipline in the Asia-Pacific region. The group focuses on financial risk management and the associated quantitative methods. Areas of particular interest include simulation techniques in finance, financial optimisation, credit risk, financial econometrics and market design issues. In line with the federal government’s aim for Sydney to become a major international finance centre, the QFRC performs internationally competitive research and translates breakthroughs into ideas that can be implemented in the local and global finance industry.

Further information is available from:
www.qfrc.uts.edu.au

Centre for the Study of Choice

The Centre for the Study of Choice (CenSoC) is a cross-disciplinary initiative of UTS: Business’s School of Marketing and School of Finance and Economics with UTS: Science’s Department of Mathematical Sciences linked with national and global affiliates. CenSoC uses theory, tools, processes and insights from econometrics, mathematics, statistics, marketing and psychology to build models to predict how consumers or firms are likely to respond to future choices. Its charter is to better understand individual and group decision-making, including the decision and choice processes of managers, organisations and consumers.

Further information is available from:
www.censoc.uts.edu.au

Links with industry

In the development of all its courses, UTS: Science is assisted by appropriate advisory committees with members drawn from the wider community. The courses are regularly reviewed to ensure currency and relevance to industrial and commercial practice.

UTS: Science has strong links with industry through its academic staff who maintain contact by undertaking appropriate research and consulting activities and through the centres of expertise. Undergraduate students have the option of spending an additional 12 months working in a relevant industry. UTS: Science provides assistance to students in finding these professional experience positions.

Subject prerequisites, corequisites, antirequisites

While every effort has been made to ensure the accuracy of the prerequisite, corequisite and antirequisite data in subject descriptions, students should check with their program directors if they intend to enrol in subjects in a different sequence to the typical course program shown in the handbook.

Bridging and short courses

Short intensive bridging courses designed for students about to enter a degree are offered in February each year. These courses teach at an introductory level only and assist in bridging the gap between school and university study. Subjects include chemistry, physics and mathematics. Other short courses are available, subject to demand. Further information is available from:
www.science.uts.edu.au/courses/bridging.html

Undergraduate course information

UTS: Science offers a number of undergraduate degree programs developed to produce graduates for professional and vocational practice, with an ability to continue their studies by research and to contribute to the knowledge base of their scientific discipline. Most of UTS: Science’s undergraduate courses are built from three building blocks of subjects comprising a 48-credit-point foundation stream, a 48-credit-point disciplinary core and a 48-credit-point extension block.

Students in the Bachelor of Science (C10242) (see page 241) select a major course of study by combining a specific disciplinary core with a matching extension block and then graduate with an award specifying that major, e.g. Bachelor of Science in (name of Science major). Most undergraduate majors also contain 24 credit points of free electives that can be used to take subjects in a different science specialty or a different discipline altogether, such as business or information technology.

Research-based, one-year honours degrees are also available to bachelor’s pass degree graduates.

Professional experience is also offered as an optional and additional component of the science degree courses in which students work in industry for a year and complete two subjects focused on enhancing understanding of the workplace environment and further development of their technical and generic skills.

Contacts and inquiries

Further information regarding undergraduate courses offered by UTS: Science is available from:
Building 6 Student Centre
telephone +61 2 9514 1222
or +61 2 9514 1222
www.science.uts.edu.au

Honours degree courses

One-year, research-based honours degrees are available in all disciplines of science and mathematics at UTS. Honours programs provide basic training in research and introduce students to advanced areas of study in the relevant discipline. Graduates generally enter occupations for which an honours degree is the minimum requirement or continue with postgraduate research degrees. Honours programs are offered in applied chemistry, applied physics, biomedical science, biotechnology, environmental science, forensic biology, forensic science, marine biology, mathematics, mathematics and finance, medical science and nanotechnology.
Admission requirements
Honours courses are one-year full-time or equivalent part-time courses. They are open to students who possess or have fulfilled all the requirements for a relevant bachelor’s degree from UTS, or equivalent qualification, with at least a credit average over the final third of the undergraduate program.

Commencement date
Students commencing their honours course in Autumn semester are normally required to commence work on their honours program on the first Monday in February. This applies even when formal enrolment is held after this date. Students should contact their supervisor for details.

Award
Honours degrees may be awarded in the following grades: first class, second class (division 1), second class (division 2) and third class.

Other information
Interested students should discuss the program and possible research projects available with the relevant head of department or honours course coordinator, or with individual members of academic staff.

Majors
The Bachelor of Science (C10242) (see page 241) and most named degrees offered by UTS: Science are structured into 48-credit-point foundation streams plus 96 credit points in majors. A major is defined by a specific 48-credit-point disciplinary core group of subjects plus a specific 48-credit-point extension group of subjects.

Students in the Bachelor of Science do not have to choose a major and can instead choose a range of subjects according to their interests, providing they ensure they choose the appropriate prerequisite subjects and have the required mix of second and third year subjects. However, there are benefits to students of formal majors:

- UTSG: Science provides direction in the choice of subjects so the variety and complexity of programs is diminished
- UTSG: There is greater clarity in defining a graduate’s capabilities, compared to a situation where choice of subjects is totally
- UTSG: a testamur is awarded that identifies the student’s area or areas of study.

Listed below are the majors within the Bachelor of Science.
- Applied Chemistry (MAJ01100)
- Applied Physics (MAJ01101)
- Biomedical Science (MAJ01104)
- Biotechnology (MAJ01103)
- Environmental Biology (MAJ01106)
- Environmental Forensics (MAJ01108)
- Marine Biology (MAJ01107)
- Mathematics (MAJ01109)
- Medical Science (MAJ01105)
- Nanotechnology (MAJ01102)
- Statistics (MAJ01111).

Sub-majors
Students enrolled in the Bachelor of Science (C10242) (see page 241), Bachelor of Medical Science (C10184) (see page 217), Bachelor of Biomedical Science (C10115) (see page 172) and Bachelor of Biotechnology (C10172) (see page 215) degrees may undertake a sub-major as part of their course. A sub-major comprises a coherent sequence of subjects offered by UTS: Science, UTS: International Studies or another course area of the University. The purpose of the sub-major is to give students the opportunity to broaden their studies into other areas of interest or to pursue studies in particular disciplines to greater depth.

Examples of possible sub-majors (24 credit points each) are listed below, but it should be noted that not all of them are necessarily appropriate to every course and that normal prerequisite conditions and timetabling constraints apply in all cases. Students should consult their program director for advice on selecting sub-majors.

- Environmental Sciences (SMJ01048): this sub-major is suitable for students in non-environmental courses.
- Mathematics (SMJ01007)
- Quantitative Management (SMJ01025): this sub-major was developed for students who have completed a first course in statistics at the University (e.g. from UTS: Business) or in the biological sciences.
- Quantitative Management (SMJ01026): this sub-major was developed for students in UTS: Information Technology but is also suitable for students from any faculty who have studied no tertiary mathematics or statistics in their degree programs.
- Quantitative Methods (SMJ01029): this sub-major is intended to expose students to the theory and application of quantitative methods that are widely used by information technology professionals, especially techniques drawn from the disciplines of statistics and management science.
- Scientific Computing (SMJ02054): this sub-major is intended to expose students to the theory and practice of computing as applied in the area of computational science.
- Statistics (Life Sciences) (SMJ01030): this sub-major is suitable for students in biological or environmental science courses.
- Statistics (Physical Sciences) (SMJ01031): this sub-major is suitable for students in physical and chemical programs, and assumes they have completed 33190 Mathematical Modelling for Science and 33290 Statistics and Mathematics for Science.
- Statistical Modelling (SMJ01032): this sub-major is intended to expose students to the theory and practice of statistical modelling.

Combined course information
UTS: Science is involved in the teaching of science to other areas of the University, including UTS: Engineering and UTS: Health. UTS: Science is also involved in offering the following joint undergraduate degree programs.

- The Bachelor of Science Bachelor of Laws (C10126) (see page 182) is offered in conjunction with UTS: Law. In order to qualify for separate awards in science and law, students are required to select an area of specialisation in science so that they can proceed to more advanced studies and thereby develop a strong recognition of their appropriate in relevant professional fields.
- The Bachelor of Medical Science Bachelor of Laws (C10131) (see page 189) is similar in structure to the Bachelor of Science Bachelor of Laws (C10126) (see page 182), but with a specialisation in medical science. Graduates qualify for professional practice in either field but may expect to be in most demand in those areas of law in which a knowledge of medical science is a particular advantage or, conversely, in areas of science such as the pharmaceutical industries where a knowledge of the law has special value.
- Science degrees combined with the 96-credit-point Bachelor of Arts in International Studies enables science students to learn and experience the language and culture of another country, thereby enhancing their competitiveness in global career choice. Students are required to select a region or country of specialisation within the International Studies program. The length of these combined degrees is five years full time, which includes one year of in-country study. Graduates may work as professionals in their area of scientific expertise particularising in specialist positions where an understanding of a particular culture may be highly desirable. The Bachelor of Science Bachelor of Arts in International Studies (C10243) (see page 245) enables students to combine a science degree in any of the 12 Bachelor of Science majors with the Bachelor of Arts in International Studies, the Bachelor of Medical Science Bachelor of Arts in International Studies (C10176) (see page 211) and the Bachelor of Biotechnology Bachelor of Arts in International Studies (C10168) (see page 212) impart additional practical skills to students specialising in science, medical science and biotechnology, particularly the knowledge and understanding of a language and culture other than English.
- The combined degree Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies (C10164) (see page 209) provides acupuncture and Chinese herbal medicine students with greater exposure to and understanding of China’s culture and a working knowledge of Chinese. The program makes it easier for traditional Chinese medicine graduates to practise outside Australia.
- The combined degrees Bachelor of Mathematics and Computing Bachelor of Arts in International Studies (C10224) (see page 229) and Bachelor of Mathematics and Finance Bachelor of Arts in International Studies (C10157) (see page 200) facilitate an international perspective on mathematics career choices in the fields of computing and finance.
• The combined degrees Bachelor of Engineering Bachelor of Biotechnology (C10078) (see page 170) and Bachelor of Engineering Bachelor of Medical Science (C10075) (see page 167) integrate the theory and application of science and engineering to produce well-rounded graduates in biotechnology or medical science. In the Bachelor of Engineering Bachelor of Science (C10073) (see page 160) the major science study may be chosen from applied chemistry, applied physics, biomedical science, biotechnology, environmental sciences, mathematics, medical science or nanotechnology. In five years of full-time study, students choose from one of the engineering majors and 78 credit points from one of the science programs. Depending on the combinations chosen, graduates are qualified to work in professional practice as well as in research and development.

• The Bachelor of Science Bachelor of Business (C10162) (see page 203) requires completion, over four years of full-time study, of a 96-credit-point major selected from the Bachelor of Business (C10026) (see page 131) plus a 96-credit-point major selected from the science programs. Graduates may work as professional scientists or as business professionals. Career areas include accounting or economics, finance, management or marketing in enterprises in which high-level scientific expertise is desirable. The program also provides business expertise for scientists who wish to be administrators in research or other scientific institutions. The Bachelor of Medical Science Bachelor of Business (C10163) (see page 208) and the Bachelor of Biotechnology Bachelor of Business (C10169) (see page 214) are similar in structure to the Bachelor of Science Bachelor of Business (C10162) (see page 203), with the science specialisation in medical science or biotechnology.

Postgraduate course information
UTS: Science offers both PhD and master’s programs by research and thesis. There are also several master’s, graduate diploma and graduate certificate programs by coursework. Inquiries regarding postgraduate coursework programs should be directed to the UTS Student Centre. Prospective research students should discuss possible topics of research with either a potential supervisor or the head of the appropriate department in the first instance. Further information on current research programs is available from UTS: Science’s research and development coordinator.

Progression
Postgraduate students are advised that they may be excluded from a course if they exceed the maximum time allowed for completion of that course (see rule 10.5).

Contacts and inquiries
Further information regarding postgraduate coursework courses offered by UTS: Science is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Further information regarding postgraduate research courses offered by UTS: Science is available from:
Research and Development Coordinator
telephone +61 2 9514 2490
fax +61 2 9514 1656
email science.research@uts.edu.au

Research profile
UTS: Science’s strategic research strengths are:
• The iThree Institute (I3)
• Plant Functional Biology and Climate Change Cluster (C3)
• Centre for Forensic Science (CFS)
• Institute for Nanoscale Technology (INT)
• Centre for Environmental Sustainability (CeNS)

Other research areas include, but are not limited to:
• applied chemistry, including nanochemistry, analytical chemistry, infrared imaging, bioinorganic chemistry
• applied physics, including image processing and analysis
• computational number theory
• ecotoxicology and chemistry toxicology
• experimental design and data analysis
• immunology
• marine biology and ecology
• mathematics and statistics
• medical and biomedical science
• microbiology
• neurotoxins
• numerical integration
• psycho-oncology
• scheduling theory
• traditional Chinese medicine.

UTS: Science works collaboratively with other UTS research strengths and centres, including:
• Centre for Health Technologies
• Centre for the Study of Choice
• Quantitative Finance Research Group.

Further information on UTS: Science’s research strengths, areas and entities is available from:
www.science.uts.edu.au/research
UNDERGRADUATE COURSES

C09004v6 Bachelor of Business (Honours)
Award(s): Bachelor of Business [Honours] [BBus(Hons)]
CRICOS code: 015933J
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City and Kuring-gai campuses

Overview
The Bachelor of Business (Honours) provides an opportunity for advanced study in the disciplinary areas of accounting, finance and economics, management or marketing.

The course provides the ideal foundation for students who plan to pursue a career in applied research in business and related professions, or who plan to undertake master's or doctoral research studies.

Course aims
The degree seeks to provide students with the knowledge, competencies and values necessary for a fulfilling and effective career.

Career options
Career options include accounting, economics, finance, financial services, human resource management, international business, management, marketing, marketing communication, and government advisory positions.

Admission requirements
Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.

Applicants must have completed the UTS Bachelor of Business, or an equivalent degree, with an overall credit average and an average mark of 70 (or equivalent for non-UTS students) in the discipline area in which the honours degree is to be awarded. A questionnaire, available from UTS: Business student offices, must also be completed.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The honours degree comprises one year of intensive full-time study or, in approved cases, two years of part-time study.

Course structure
The Bachelor of Business (Honours) comprises 48 credit points of study.

Students may undertake any of the following four streams.

- The Accounting stream provides the knowledge and skills to critically evaluate accounting issues. The coursework component provides research skills necessary for critical evaluation of both theoretical and empirical studies in accounting. The thesis component focuses on an area such as market-based accounting research, contracting theory, auditing and management accounting.

- The Economics stream equips students with the skills and knowledge required for applied or postgraduate research in economics. The coursework component provides in-depth knowledge of advanced microeconomic and macroeconomic analysis, economic modelling and policy applications. Students undertake original theoretical or applied research in a disciplinary area of economics for the thesis component.

- The Finance stream brings students up to date with both the latest theoretical issues and the current research methods used in finance. The thesis develops skills through applied research in a relevant area, and prepares students for further research in either industry or postgraduate studies. It is recommended that students undertake this program on a full-time basis.

- The Marketing stream prepares students for further academic research or research in a marketing management position. The coursework component provides in-depth knowledge of contrasting theories of marketing, and expertise in a range of current research methods and analytical techniques. The thesis component involves original applied research in a disciplinary area of marketing.

Course completion requirements
CBB90793 Stream choice 48cp
Total 48cp

Course program
Course programs for accounting, economics, finance, management and marketing are shown below.

Accounting
22901 Accounting Research and Consulting Skills 6cp
22902 Financial Reporting, Capital Markets and Disclosure 6cp
22903 Contemporary Issues in Management Accounting Research 6cp
22906 Thesis in Accounting 24cp
22908 Economics of Auditing and Assurance Services 6cp

Economics
23917 Advanced Macroeconomics 6cp
23907 Advanced Microeconomics 6cp
23908 Economic Modelling 6cp
23918 Economic Policy Seminar 6cp
23909 Thesis Proposal in Economics (Honours) 6cp
23910 Thesis in Economics (Honours) 18cp

Finance
25921 Theory of Financial Decision Making 6cp
25922 Financial Econometrics 6cp
25924 Advanced Corporate Finance 6cp
25923 Derivative Security Pricing 6cp
25922 Financial Econometrics 6cp
25924 Advanced Corporate Finance 6cp
25923 Derivative Security Pricing 6cp
25928 Thesis Proposal in Finance (Honours) 6cp
25929 Thesis in Finance (Honours) 18cp

Management
Select one of the following: 6cp
21907 Research Methods and Approaches in Management and Organisations 6cp
21914 Readings and Reflecting on Management 6cp
21908 Advanced Management and Organisation Research Methods 6cp
Select one of the following: 6cp
21909 Advanced Organisation and Management Theorising 6cp
21915 Management and Organisation Seminars 6cp
21910 Researching Organisations and Management 6cp
21912 Thesis Proposal in Management (Honours) 6cp
21913 Thesis in Management (Honours) 18cp

108 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Marketing
24901 Philosophy of Science and Theory 6cp
Select one of the following:
24902 Research Methodology and Data Analysis Techniques 6cp
24758 Readings in Marketing 6cp
Select one of the following:
24908 Research Design and Data Collection Techniques 6cp
21751 Management Research Methods 6cp
Select one of the following:
24331 Marketing Analytics and Decisions 6cp
23908 Economic Modelling 6cp
24770 Thesis in Marketing (Honours) 1 6cp
24771 Thesis in Marketing (Honours) 2 18cp

Other information
Further information is available from UTS: Business at:
www.business.uts.edu.au

C09005v6 Bachelor of Management (Honours) in Events and Leisure
Award(s): Bachelor of Management (Honours) in Events and Leisure (BM(Hons))
CRICOS code: 043288A
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: Kuring-gai campus
Overview
The honours program is designed to provide students with the resources to further develop and apply their research skills and to pursue special areas of interest in depth.

Course aims
The honours program aims to develop, at an advanced undergraduate level, knowledge of sport and leisure management through research; facilitate the completion of a substantive research thesis which focuses on theory, applied/professional issues or some combination of these; provide a direct pathway to graduate-level study; and make contributions to knowledge in the field of sport and leisure management.

Career options
Career options include activities and cultural events coordinator at a university or college; manager or administrator in leisure, tourism, sports, entertainment or the arts; marketing of sport and leisure; outdoor recreation promotion; and recreation planner/manager in local government.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.
Applicants typically should have successfully completed the Bachelor of Management in Events and Leisure (C10039) (see page 135), with a credit average or better in the final two full-time semesters.
Graduates from other institutions who have completed a comparable course and who meet the academic criteria are also considered for admission.
In exceptional cases, consideration is given to applicants who have completed the Bachelor of Management in Events and Leisure (C10039) (see page 135), the Bachelor of Management in Sport and Exercise (C10301) (see page 289), the Bachelor of Management in Tourism (C10040) (see page 136) or the Bachelor of Human Movement (C10300) (see page 288) at pass level. In such cases, outstanding professional achievements are taken into account.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is normally completed in one year of full-time or two years of part-time study. It is offered only at Kuring-gai campus.

Course structure
All students must complete three coursework subjects, each worth 6 credit points, and a major thesis of 30 credit points, totalling 48 credit points. The precise nature of each student’s program is determined in consultation with the honours course coordinator, with the aim being to choose those subjects that facilitate completion of the honours research thesis.
In choosing electives, students may:
• substitute subject Readings for Thesis with an elective subject with the approval of the course coordinator
• complete both elective subjects in the first semester
• choose other senior undergraduate-level subjects with the approval of the course coordinator; these subjects may be taken from other schools within UTS: Business or elsewhere in the University.

Course completion requirements
27941 Advanced Research Methods for Leisure, Sport and Tourism 6cp
27154 Readings for Thesis 6cp
276901 Honours Thesis 1 15cp
276902 Honours Thesis 2 15cp
CBK90108 Leisure, Sport and Tourism subjects (PG) 6cp
Total 48cp

Other information
Further information is available from UTS: Business on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
www.business.uts.edu.au

C09007v4 Bachelor of Management (Honours) in Tourism
Award(s): Bachelor of Management (Honours) in Tourism (BM(Hons))
CRICOS code: 042814C
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: Kuring-gai campus
Overview
The honours program is designed to provide students with the resources to further develop and apply their research skills and to pursue special areas of interest in depth.

Course aims
The honours program aims to develop, at an advanced undergraduate level, knowledge of tourism management through research; facilitate the completion of a substantive research thesis which focuses on theory, applied/professional issues or some combination of these; provide a direct pathway to graduate-level study; and make contributions to knowledge in the field of tourism management.

Career options
Career options include management, marketing and policy analysis roles in industries such as hotels, airlines, tour operations, regional planning and development, special events and tourist attractions, both in Australia and overseas.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.
Applicants typically should have successfully completed the Bachelor of Management in Tourism (C10040) (see page 136), with a credit average or better in the final two full-time semesters.

Other information
Further information is available from UTS: Business on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
www.business.uts.edu.au
Graduates from other institutions who have completed a comparable course and who meet the academic criteria are also considered for admission. In exceptional cases, consideration is given to applicants who have completed the Bachelor of Management in Leisure (C10039) (see page 135), the Bachelor of Arts in Sport and Exercise Management (C10301) (see page 289), the Bachelor of Management in Tourism (C10040) (see page 136) or the Bachelor of Arts in Human Movement Studies (C10300) (see page 288) at pass level. In such cases, outstanding professional achievements are taken into account.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B+; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

### International students

**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Course duration and attendance

The honours component is normally completed in one year of full-time or two years of part-time study. It is offered only at Kuring-gai campus.

### Course structure

All students must complete three coursework subjects, each worth 6 credit points, and a major thesis of 30 credit points, totalling 48 credit points. The precise nature of each student's program is determined in consultation with the honours course coordinator, with the aim of choosing those subjects that facilitate completion of the honours research thesis.

In choosing electives, students may:

- substitute subject Readings for Thesis with an elective subject, with the approval of the course coordinator
- complete both elective subjects in the first semester
- choose other senior undergraduate-level subjects with the approval of the course coordinator; these subjects may be taken from other schools within UTS: Business or elsewhere in the University.

### Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>27941</td>
<td>Advanced Research Methods for Leisure, Sport and Tourism</td>
<td>6cp</td>
</tr>
<tr>
<td>27154</td>
<td>Readings for Thesis</td>
<td>6cp</td>
</tr>
<tr>
<td>276091</td>
<td>Honours Thesis 1</td>
<td>15cp</td>
</tr>
<tr>
<td>276902</td>
<td>Honours Thesis 2</td>
<td>15cp</td>
</tr>
<tr>
<td>CBK90108</td>
<td>Leisure, Sport and Tourism subjects (PG)</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total 48cp</strong></td>
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</tbody>
</table>

### Other information

Further information is available from UTS: Business on:

- telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
- www.business.uts.edu.au

### C90009v4 Bachelor of Arts (Honours) in Communication

**Award(s):** Bachelor of Arts (Honours) in Communication (BA(Hons))

**CRICOS code:** 017874K

**Commonwealth-supported place:** Yes

**Load credit points:** 48

**Course EFTSL:** 1

**Location:** City campus

### Overview

This course offers graduates the opportunity to pursue advanced work in the humanities and social sciences, and prepares them for postgraduate research. Emphasis is placed on interdisciplinary approaches and the integration of scholarship with contemporary media.

Students undertake a program of advanced coursework and produce a thesis relevant to their academic, professional and/or creative agenda.

### Admission requirements

**Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.**

Applicants are admitted to the honours program only if appropriately qualified UTS: Communication academic staff are available for supervision of the thesis component.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73. Eligibility for admission does not guarantee offer of a place.

### International students

**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Course duration and attendance

The course is offered on a one-year, full-time basis.

### Course structure

Students complete two 12-credit-point subjects (24 credit points) and a thesis (24 credit points). The thesis is based on their original work informed by theoretical study and independent research. The thesis may be presented in a variety of traditional and/or non-traditional formats.

### Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>55069</td>
<td>Honours Workshop</td>
<td>12cp</td>
</tr>
<tr>
<td>55067</td>
<td>Communication and Information Honours Seminar</td>
<td>12cp</td>
</tr>
<tr>
<td>55068</td>
<td>Cultural Studies Honours Seminar</td>
<td>12cp</td>
</tr>
<tr>
<td>55073</td>
<td>Social Sciences Honours Seminar</td>
<td>12cp</td>
</tr>
<tr>
<td>55066</td>
<td>Writing Studies Honours Seminar</td>
<td>12cp</td>
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<td></td>
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<td><strong>Total 48cp</strong></td>
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</tbody>
</table>

### Course program

The example program below is for a student commencing in Autumn semester.

#### Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
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<tr>
<td>55069</td>
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</tr>
<tr>
<td>55073</td>
<td>Social Sciences Honours Seminar</td>
<td>12cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>55004</td>
<td>Honours Thesis (FT)</td>
<td>24cp</td>
</tr>
<tr>
<td>55006</td>
<td>Honours Thesis (Production) (FT)</td>
<td>24cp</td>
</tr>
</tbody>
</table>

### Other information

Further information is available from the UTS Student Centre on:

- telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
C09018v5 Bachelor of Nursing (Honours)

Award(s): Bachelor of Nursing (Honours) [BN(Hons)]
CRICOS code: 015936F
Commonwealth-supported place?: Yes
Course EFTSL: 1
Location: City campus

Overview
This course provides the opportunity for eligible graduates of the Bachelor of Nursing to extend their skills and understanding of the research process. It emphasises the reciprocal relationship between nursing research and the contexts of nursing practice. This course provides Bachelor of Nursing graduates with the opportunity to develop training in clinically focused research. The course deepens students’ understanding of the importance of research in nursing.

Course aims
The purpose of the course is to enable graduate nurses to conduct research relevant to nursing in any of its dimensions. It aims to develop students’ skills in using research designs and methodologies, and to reinforce their understanding of the crucial role of research in the evolution of the discipline of nursing. Students also develop academic writing skills to produce a dissertation.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level. All applicants must be eligible to graduate from a Bachelor of Nursing program from UTS or another tertiary institution at the time of application (followed by successful completion). Applicants must be registered as a nurse in their country of citizenship or residence at the time of enrolment (exemptions to this rule may be sought from the Bachelor (Honours) Selection Committee in exceptional circumstances).

All applicants must have completed at least one research subject (as approved by the Bachelor (Honours) Selection Committee) with a credit grade and have a weighted average mark or grade point average of credit or higher for their bachelor’s degree. Applicants are admitted to the honours course only if appropriately qualified academic members of UTS: Health staff are available for supervision of the dissertation component.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583; or PTE: 58-64; or DEEP: C; or CAE: 58-66; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course may be completed in one year of full-time or two years of part-time study.

Course structure
The course comprises a total of 48 credit points. Students complete two 6-credit-point subjects and a 36-credit-point thesis.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>92972</td>
<td>Health Care Research Methodology</td>
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</tr>
<tr>
<td>92973</td>
<td>Developing Health Care Theory</td>
<td>6cp</td>
</tr>
<tr>
<td>92974</td>
<td>Investigating Health Care Change</td>
<td>6cp</td>
</tr>
<tr>
<td>92991</td>
<td>Nursing Honours Dissertation 1</td>
<td>18cp</td>
</tr>
</tbody>
</table>
| 92992 | Nursing Honours Dissertation 2                | 18cp          | Total 48cp

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
email NMHRResearch.StudentsAdmin@uts.edu.au
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

C09019v4 Bachelor of Science (Honours) in Information Technology

Award(s): Bachelor of Science (Honours) in Information Technology [BSc(Hons)]
CRICOS code: 046619G
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
This course provides the opportunity for students to develop research skills, and provides greater breadth and depth in a specific area of information technology. The honours program in IT prepares students to be active players in the knowledge economy. The course provides the research skills needed to create knowledge, a much harder and more rewarding task than simply using the knowledge created by other people. Students experience the satisfaction of creating links between the world of cutting-edge knowledge and the IT industry.

Course aims
The honours program aims to provide students:
• with a sound research methodology
• for the in-depth study of particular topics in information technology
• with the experience of undertaking a research-oriented project
• with a basis for postgraduate research or a career in industrial research and development.

Career options
This course prepares graduates for a leading role in industry-relevant research.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

Students within the Faculty of Engineering and Information Technology at UTS who are eligible to graduate from any undergraduate degree in information technology may apply for the Bachelor of Science (Honours) in Information Technology. The admission requirement is a weighted average mark of 65 per cent or higher, normally with no recorded failures in the core subjects after the first year (full time) or stages 1 and 2 (part time) of the undergraduate degree.

Students from another faculty in the University, or from another university, with qualifications equivalent to the Bachelor of Science in Information Technology (C10148) (see page 193) are considered for entry, subject to approval by the honours program leader, on the basis of their potential to complete the honours degree.

Students can enrol without having organised a supervisor, but must find one by the end of week 2 of their first semester. Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
strongly advised to find a potential supervisor during their final undergraduate semester (or sometime before the application deadline for external students).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Most students come from an undergraduate program in IT at UTS, so they are familiar with the three basic topic areas in IT: software engineering, data communications and project management.

Course duration and attendance

The honours program is offered over one year of full-time or two years of part-time study.

Course structure

The honours degree consists of research and advanced coursework. The course component is spread over the entire course. In the first semester (full time), students undertake a research methods subject and review the research literature in their chosen area; in the second semester (full time), students undertake a formal research project in their chosen area.

Part-time students should undertake the project subjects in the second year of the program.

Any UTS: Information Technology master’s-level subject may be taken by an IT honours student, subject to prerequisites and availability. If it aligns with their research, IT honours students may take advanced-level undergraduate electives or electives from other faculties, with the permission of the course coordinator.

Course completion requirements

32931 Technology Research Methods 6cp
31482 Honours Project 12cp
CBK90304 Electives 24cp
32144 Technology Research Preparation 6cp
Total 48cp

Course program

The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Note: Subjects listed as electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Full time

Year 1

Autumn semester
32144 Technology Research Preparation 6cp
32931 Technology Research Methods 6cp
Select 12 credit points of electives 12cp

Spring semester
31482 Honours Project 12cp
Select 12 credit points of electives 12cp

Year 2

Autumn semester
Select 12 credit points of electives 12cp

Spring semester
31482 Honours Project 12cp

Other information

Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09020v6 Bachelor of Science (Honours) in Mathematics

Award(s): Bachelor of Science (Honours) in Mathematics (BSc(Hons))
CRICOS code: 017876G
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The honours course offers basic training in research and introduces students to advanced studies in the mathematical sciences.

Students who complete the honours degree are well prepared to enter the workforce at a high level or to undertake graduate studies.

Admission requirements

Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.

Students who are eligible to graduate from the Bachelor of Science (Mathematics major) with an average mark of 65 per cent or more in Year 2 (full time) in their core subjects and chosen major are eligible for entry to the honours degree.

Students who have obtained qualifications equivalent to the Bachelor of Science in Mathematics (C09020) (see page 112) degree are, upon application, considered for entry by the head of the School of Mathematical Sciences on the basis of assessed potential to complete the honours degree.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-year, full-time or two-year, part-time basis.

Course structure

The honours program requires the completion of subjects totalling 48 credit points.

Course completion requirements

35493 Thesis (Mathematics) Honours Part A 12cp
35494 Thesis (Mathematics) Honours Part B 12cp
CBK90820 Electives 24cp
Total 48cp

Course program

The course commences in either Autumn or Spring semester. The program shown assumes full-time attendance. Not all subjects may be available.
The project involves a major investigation of some area of finance and provides students with the opportunity to apply the skills developed in their coursework.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>EFTSL</th>
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<tbody>
<tr>
<td>25921</td>
<td>Theory of Financial Decision Making</td>
<td>6cp</td>
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<tr>
<td>35476</td>
<td>Thesis: Mathematics and Finance (Hons) A</td>
<td>6cp</td>
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<tr>
<td>35466</td>
<td>Advanced Stochastic Processes</td>
<td>6cp</td>
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<tr>
<td>35477</td>
<td>Thesis: Mathematics and Finance (Hons) B</td>
<td>6cp</td>
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<tr>
<td>35322</td>
<td>Advanced Analysis</td>
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</table>

Other information

Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
+ or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09021v6 Bachelor of Mathematics and Finance (Honours)

Award(s): Bachelor of Mathematics and Finance (Honours) (BMathFin(Hons))
CRICOS code: 017875J
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The honours course offers basic training in research and introduces advanced areas of study in mathematics and finance. Honours degree graduates are particularly sought after and their skills enable them to compete for high entry-level jobs in the banking sector.

Admission requirements

Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level. Students who are eligible to graduate from the Bachelor of Mathematics and Finance (C10155) (see page 199) with an average mark of 65 per cent or more over all subjects in Years 2 and 3 (full time) are eligible for entry to the honours degree, subject to the approval of the head of the School of Mathematical Sciences and the head of the School of Economics.

Students who have obtained qualifications equivalent to the Bachelor of Mathematics and Finance degree are considered for entry, upon application, by the heads of the participating department and school on the basis of their assessed potential to complete the honours degree.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-year, full-time basis.

Course structure

The honours course requires completion of subjects comprising 48 credit points, consisting of advanced coursework subjects in mathematics, statistics and finance, together with a substantial project.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

Course completion requirements
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<td>24cp</td>
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Course program
The course commences in Autumn semester. The course program is shown below.

Year 1
Autumn semester
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</table>

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09023v3 Bachelor of Science (Honours) in Biomedical Science
Award(s): Bachelor of Science (Honours) in Biomedical Science (BSc(Hons))
CRICOS code: 043284E
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The honours course offers basic training in research and introduces advanced areas of study in biomedical science. This course provides students with a unique opportunity to undertake original research and gain in-depth knowledge in a particular field of biomedical science. Honours students have access to staff that are leading researchers and experts in their field. Undertaking an honours course allows students to explore their research potential and develop research skills. Honours also provides a pathway for students interested in pursuing postgraduate studies at masters and PhD level, and enhances graduate's career and study options.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

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Course program
The course commences in Autumn semester. The course program is shown below.

Year 1
Autumn semester
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</table>

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09026v3 Bachelor of Science (Honours) in Applied Chemistry
Award(s): Bachelor of Science (Honours) in Applied Chemistry (BSc(Hons))
CRICOS code: 040707M
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The honours degree offers basic training in research and introduces advanced areas of study in applied chemistry.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

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Course program
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Other information
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Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09023v3 Bachelor of Science (Honours) in Biomedical Science
Award(s): Bachelor of Science (Honours) in Biomedical Science (BSc(Hons))
CRICOS code: 043284E
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The honours course offers basic training in research and introduces advanced areas of study in biomedical science. This course provides students with a unique opportunity to undertake original research and gain in-depth knowledge in a particular field of biomedical science. Honours students have access to staff that are leading researchers and experts in their field. Undertaking an honours course allows students to explore their research potential and develop research skills. Honours also provides a pathway for students interested in pursuing postgraduate studies at masters and PhD level, and enhances graduate's career and study options.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

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Course program
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or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09026v3 Bachelor of Science (Honours) in Applied Chemistry
Award(s): Bachelor of Science (Honours) in Applied Chemistry (BSc(Hons))
CRICOS code: 040707M
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The honours degree offers basic training in research and introduces advanced areas of study in applied chemistry.

This degree in applied chemistry provides students with an opportunity to get involved in a research program in an area that interests them, as well as providing training in research techniques and experience with modern research instrumentation. The honours program adds a new dimension to the skills students have acquired during their undergraduate years and enhances their immediate
employment prospects and future career potential. An honours degree can lead into a postgraduate research degree.

Career options
Career options include developer, production manager, researcher, safety officer and sales manager in drug, food, industrial chemical and process industries, metal and alloy, paint and plastic.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level. The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

Course completion requirements

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<tr>
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<td></td>
<td>Total</td>
<td>48 cp</td>
</tr>
</tbody>
</table>

Course program
The course commences in Autumn semester. An example program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Honours (Chemistry) 1</td>
<td>24 cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Honours (Chemistry) 2</td>
<td>24 cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09029v3 Bachelor of Science (Honours) in Environmental Science

Award(s): Bachelor of Science (Honours) in Environmental Science [BSc(Hons)]
CRICOS code: 022683G
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The honours course offers training in research and introduces advanced areas of study in a range of fields in environmental science including marine biology, environmental forensics and environmental biology.

Career options
There is a broad range of career options including professional environmental scientist or consultant, environmental and resource management, communications and media, National Parks ranger, and academic scientist.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level. The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
This program is offered on a one-year, full-time basis.

Course structure
The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91105</td>
<td>Honours FT (Environmental Science) 1</td>
<td>24 cp</td>
</tr>
<tr>
<td>91106</td>
<td>Honours FT (Environmental Science) 2</td>
<td>24 cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48 cp</td>
</tr>
</tbody>
</table>

Course program
The course commences in Autumn semester. An example program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Honours FT (Environmental Science) 1</td>
<td>24 cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Honours FT (Environmental Science) 2</td>
<td>24 cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**C09031v3 Bachelor of Medical Science (Honours)**

**Award(s):** Bachelor of Medical Science (Honours) [BMedSc(Hons)]

CRICOS code: 040706A

Commonwealth-supported place?: Yes

Load credit points: 48

Course EFTSL: 1

Location: City campus

**Overview**

The honours course offers basic training in research and introduces advanced areas of study in medical science.

This course provides students with a unique opportunity to undertake original research and gain in-depth knowledge in a particular field of medical science. Honours students have access to staff that are leading researchers and experts in their field. Undertaking an honours course allows students to explore their research potential and develop research skills. Honours also provides a pathway for students interested in pursuing postgraduate studies at masters and PhD level, and enhances graduate’s career and study options.

**Career options**

Career options include medical researcher, scientist or health-related professional in organisations such as hospitals, medical research institutes, pathology laboratories and universities, and in industries dealing with biochemicals, biotechnology and pharmaceuticals.

**Admission requirements**

Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The course is offered on a one-year, full-time basis.

**Course structure**

The major component of the course is a research project that extends over the full duration of the course and normally takes the form of an experimental or analytical investigation, undertaken either in the laboratory or the field. Candidates may also be required to undertake one or more critical reviews of the scientific literature in designated areas and to attend formal classes devoted to advanced coursework.

The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91103</td>
<td>Honours FT (Medical and Molecular Bioscience) 1</td>
<td>24cp</td>
</tr>
<tr>
<td>91104</td>
<td>Honours FT (Medical and Molecular Bioscience) 2</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

**C09035v4 Bachelor of Science (Honours) in Applied Physics**

**Award(s):** Bachelor of Science (Honours) in Applied Physics [BSc(Hons)]

CRICOS code: 040708K

Commonwealth-supported place?: Yes

Load credit points: 48

Course EFTSL: 1

Location: City campus

**Overview**

The honours degree is a one-year, full-time program undertaken following the completion of the pass degree. The main component of the course is a research project conducted within one of the UTS research groups, or jointly with an external organisation.

The course prepares students in aspects of planning and executing a research program to address a specific scientific or technological problem. In addition, two coursework subjects provide detailed knowledge in several areas of contemporary significance in physics and nanotechnology.

**Admission requirements**

Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The course is offered on a one-year, full-time basis.

**Course structure**

The honors program consists of two 18-credit-point research subjects and two 6-credit-point advanced coursework subjects. The two research subjects, one taken in each semester, combine to form a single research project that consists of a literature review, development and enunciation of a research plan, and hands-on research work. The two coursework subjects are separate subjects.
Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>68001</td>
<td>Advanced Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>68002</td>
<td>Advanced Nanomaterials</td>
<td>6cp</td>
</tr>
<tr>
<td>68005</td>
<td>Physics Honours Research 1</td>
<td>18cp</td>
</tr>
<tr>
<td>68006</td>
<td>Physics Honours Research 2</td>
<td>18cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 48cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

Course program

The course commences in Autumn semester. The course program is shown below.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>68001</td>
<td>Advanced Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>68005</td>
<td>Physics Honours Research 1</td>
<td>18cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>68002</td>
<td>Advanced Nanomaterials</td>
<td>6cp</td>
</tr>
<tr>
<td>68006</td>
<td>Physics Honours Research 2</td>
<td>18cp</td>
</tr>
</tbody>
</table>

Other information

Further information is available from:

Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09046v2 Bachelor of Science (Honours) in Nanotechnology

Award(s): Bachelor of Science [Honours] in Nanotechnology [BSc(Hons)]
CRICOS code: 059184M
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The honours degree is a one-year, full-time program undertaken following the completion of the pass degree. The main component of the course is a research project conducted within one of the UTS research groups, or jointly with an external organisation. This course prepares students in aspects of planning and executing a research project to address a specific scientific or technological problem. In addition, two coursework subjects provide detailed knowledge in specific components of nanoscience and nanotechnology.

Admission requirements

Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of an undergraduate program in nanotechnology or other appropriate science degrees.

The English proficiency requirement for international students or local applicants with international qualifications is:
- Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-year, full-time basis.

Course structure

The honours program consists of two 18-credit-point research subjects and two 6-credit-point advanced coursework subjects. The two research subjects, one taken in each semester, combine to form a single research project that consists of a literature review, development and enunciation of a research plan, and hands-on research work. The two coursework subjects are separate subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>68001</td>
<td>Advanced Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>68002</td>
<td>Advanced Nanomaterials</td>
<td>6cp</td>
</tr>
<tr>
<td>68003</td>
<td>Nanotechnology Honours Research 1</td>
<td>18cp</td>
</tr>
<tr>
<td>68004</td>
<td>Nanotechnology Honours Research 2</td>
<td>18cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 48cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

Other information

Further information is available from:

Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09048v2 Bachelor of Design (Honours) in Architecture

Award(s): Bachelor of Design [Honours] in Architecture [BDesign(Hons)]
CRICOS code: 044180E
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The Bachelor of Design (Honours) in Architecture offers graduates of the Bachelor of Design in Architecture (C10004) (see page 125) the opportunity to pursue advanced work in subject areas related to architecture and prepares them for postgraduate research. This course allows students to work at a higher level of academic study. It also allows study in a relevant area of student interest.

Career options

Career options include architect (after completion of the Master of Architecture), urban designer, landscape architect, administrator, policy maker, researcher, educator, or journalist.

Admission requirements

Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

An appropriate first degree can include the UTS Bachelor of Design in Architecture (C10004) (see page 125). The following requirements also apply:

- applicants must have a credit average or better at level 2 of the Bachelor of Design in Architecture (or equivalent from another university)
- the feasibility of the proposed project must be demonstrated by a two-three page description of the thesis proposed including an account of the methods to be employed in completing the project
- applicants must be able to demonstrate an understanding of what is involved in undertaking the research for the project in the proposed area of study
- the availability of staff for supervision as indicated in a signed statement by a potential supervisor.

The English proficiency requirement for international students or local applicants with international qualifications is:
- Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place. 
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered full time only, over two semesters. The maximum time taken to complete the course is three semesters.

Course structure
Students complete 48 credit points, comprising one 12-credit-point coursework subject, one 12-credit-point preparatory honours thesis subject and one 24-credit-point honours thesis.

Students must complete a coursework subject, conducted in the first half of first semester, devoted to research methods, information retrieval skills and the initial development of their thesis proposal. Students then spend the remainder of the first semester and the whole of second semester producing, under the direction of a specific supervisor, a thesis relevant to their academic, professional and/or creative agenda. The thesis is based on their original work informed by theoretical study and independent research.

The final level of honours achieved is determined by a weighted calculation of the three components of the honours course:

- pass in subject Research Methods (required for obtaining any level of honours)
- honours thesis preparatory mark (35 per cent)
- honours thesis mark (65 per cent).

The level of honours degree awarded is dependent on the student’s final percentage mark for the course:

- honours first class (85-100 per cent)
- honours second class (division 1) (75-84 per cent)
- honours second class (division 2) (65-74 per cent)
- honours third class (50-64 per cent)
- fail (less than 50 per cent).

Course completion requirements
11391 Research Methods, Information Retrieval and Project Proposal 12cp
11392 Honours Thesis: Preparatory 12cp
11393 Honours Thesis 24cp
Total 48cp

Course program
The example program below is for a full-time student completing the Bachelor of Design in Architecture commencing in Autumn semester, followed by the Bachelor of Design (Honours) in Architecture.

Year 1
Autumn semester
11391 Research Methods, Information Retrieval and Project Proposal 12cp
11392 Honours Thesis: Preparatory 12cp
Spring semester
11393 Honours Thesis 24cp

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C09050v1 Bachelor of Forensic Science (Honours) in Applied Chemistry
Award(s): Bachelor of Forensic Science (Honours) in Applied Chemistry (BForSc(Hons))
CRICOS code: 061247E
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
In this honours course, students gain direct training in the skills required for undertaking research in forensic science as well as further developing their investigative and communication skills in the forensic science context. The course offers the opportunity for students to undertake a research project within one of the research groups at UTS or collaboratively with an external organisation.

Course aims
This course aims to produce professional forensic scientists and chemists with highly adaptable and practical scientific skills and to develop critical thinking, communication and research skills.

Career options
Career options include positions in the police service or other government forensic services, in drug detection, environmental chemistry, private investigation, and state and federal law enforcement agencies.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The honours program is open to students who have attained at least a credit average over the final third of the undergraduate program in the Bachelor of Forensic Science in Applied Chemistry (C10244) (see page 251) or other appropriate science degrees.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The course comprises 48 credit points of study, consisting of two academic stages. The major component of the course (75 per cent) is a research project that extends over the full duration of the course and normally takes the form of an experimental investigation. The project is undertaken within one of the research groups at UTS in an area of forensic science. Projects may also be undertaken in collaboration with an external partner. Projects are chosen by the student, although first preferences cannot always be accommodated. As part of the project, students undertake a critical review of the existing literature in their research area and develop a research plan for the year. The results of the project are presented in an oral seminar and in a written thesis, both of which are formally assessed. The remaining 25 per cent is coursework.

Course completion requirements
65743 Complex Forensic Cases (Chemistry) 6cp
65863 Expert Evidence Presentation 6cp
65864 Honours (Forensic Science) 1 18cp
65865 Honours (Forensic Science) 2 18cp
Total 48cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course program
The course commences in Autumn semester. An example program is shown below.

Year 1
Autumn semester
65743 Complex Forensic Cases (Chemistry) 6cp
65864 Honours (Forensic Science) 1 18cp

Spring semester
65863 Expert Evidence Presentation 6cp
65865 Honours (Forensic Science) 2 18cp

Professional recognition
Graduates from this course are eligible to become members of the Royal Australian Chemical Institute and the Australian and New Zealand Forensic Science Society.

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C09051v1 Bachelor of Midwifery (Honours)
Award(s): Bachelor of Midwifery [Honours] [B(Mid)Hons]
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course is not offered to international students.

Overview
This course provides the opportunity for eligible graduates of the Bachelor of Midwifery (C10225) (see page 230) to extend their skills and understanding of the research process. It emphasises the reciprocal relationship between nursing research and the contexts of midwifery practice.

This course provides Bachelor of Midwifery graduates with the opportunity to develop training in clinically focused research. The course deepens students’ understanding of the importance of research in midwifery.

Course aims
The purpose of the course is to enable graduate midwives to conduct research relevant to midwifery in any of its dimensions. It aims to develop students’ skills in using research designs and methodologies, and to reinforce their understanding of the crucial role of research in the evolution of the discipline of midwifery. Students also develop academic writing skills to produce a dissertation.

Career options
Career options that graduates may undertake include registered midwife in a clinical specialty supported by their research project work, such as antenatal care, or prepare for roles such as midwife educator or manager. However, graduates are also well-prepared to undertake postgraduate research degrees or begin a career as a researcher.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.
All applicants must be eligible to graduate from the UTS Bachelor of Midwifery or another tertiary institution at the time of application (followed by successful completion). Applicants must be registered as a midwife in their country of citizenship or residence at the time of enrolment (in exceptional circumstances, exemptions to this rule may be sought from the Bachelor (Honours) Selection Committee).
All applicants must have completed at least one research subject (as approved by the Bachelor (Honours) Selection Committee) with a credit grade and have a weighted average mark or grade point average of credit or higher for their bachelor’s degree. Applicants are admitted to the honours course only if appropriately qualified academic members of UTS. Health are available for supervision of the dissertation component.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course may be completed in one year of full-time or two years of part-time study.

Course structure
The course comprises a total of 48 credit points. Students complete two 6-credit-point subjects and a 36-credit-point thesis.

Course completion requirements
92972 Health Care Research Methodology 6cp
Select one of the following:
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp
92265 Midwifery Honours Dissertation 1 18cp
92266 Midwifery Honours Dissertation 2 18cp
Total 48cp

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail NMHResearch.StudentsAdmin@uts.edu.au
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

C09052v1 Bachelor of Design (Honours) in Photography and Situated Media
Award(s): Bachelor of Design [Honours] in Photography and Situated Media [BDesign(Hons)]
CRICOS code: 08111J
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course has its first intake of students in 2013.

Overview
The Bachelor of Design in Photography and Situated Media (C10265) (see page 280) explores both traditional photographic practice and more contemporary uses for urban media, such as exhibitions and installations. The degree has a strong emphasis on the relationship between digital photography and its purpose in an environmental situation, focusing on city and urban issues of media placement.
This course not only recognises the technological change brought about by digital advances in photography, but responds to actual and potential directions in which technological change impacts upon photography, the production of imagery and their applications in the real and virtual worlds.
Accordingly, the course balances practical skills with theoretical underpinnings, ethics and creative speculation. All studio subjects are project based and rely on professional practice in their requirements, giving students the capacity to handle the expectations of professional life.
The honours year allows research exploration through an independent project.
Course aims
This degree equips graduates with the ability to engage in the broad scope of photographic careers. Students graduate with skills of self-reflection in their practice, critical engagement with and responses to social and cultural issues, and a broad understanding of research practices. Students also gain an understanding of new technologies for image and sound production, and new ways of approaching media in the environment.

Career options
Career options include employment or self-employment in traditional commercial photography, exhibition media, photographic lighting, photographic technical and digital workflow practice, photojournalism, installation and interactive media and advertising.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.
Applicants require a weighted average mark of 70 across the three years of the Bachelor of Design in Photography and Situated Media (C10265) (see page 280).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
This course totals 48 credit points made up of four 12-credit-point subjects.

Course completion requirements
80030  Research Methods  12cp
80029  Independent Project: Conceptual Development  12cp
80028  Independent Project: Designed Outcome  12cp
80041  Dissertation  12cp
Total 48cp

Course program
The course program is shown below.

Year 1

Autumn semester
80030  Research Methods  12cp
80029  Independent Project: Conceptual Development  12cp

Spring semester
80041  Dissertation  12cp
80028  Independent Project: Designed Outcome  12cp

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C09055v1 Bachelor of Design (Honours) in Interior and Spatial Design
Award(s): Bachelor of Design (Honours) in Interior and Spatial Design (BDesign(Hons))
CRICOS code: 071630D
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1

Overview
With a strong emphasis on creativity and technology, the Bachelor of Design (Honours) in Interior and Spatial Design is the first university program of its kind in Australia. While interior design is an established profession, spatial design encompasses a range of connected practices that engage directly and creatively with space, from designing an exhibition to art directing a performance. This honours course allows students to critically research and develop an interior and spatial design project.

The course enhances employability through the development of a portfolio. This course allows students to develop skills in a specialised area, such as performative space, commercial interiors or residential interiors design.

Uniquely, this course emphasises digital technologies of representation and fabrication, internationalisation and design practice.

Course aims
This course uses project-based learning to allow students to develop a focused portfolio. Through their study, students develop spatial intelligence and excellence in design practice. The program fosters a creative and explorative attitude toward the design process, underpinned by a reflective and critical engagement. In doing so, students generate a cohesive design approach where research and practice are consolidated in design outcomes.

The course cultivates a collaborative and global vision of design through a variety of interdisciplinary subjects, industry projects and international studios. Students develop the flexibility and confidence to work in the divergent and novel environments of contemporary practice.

The course has:
• an emphasis on creative, innovative spatial practice and international networks
• practice-oriented and research-integrated learning regarding specific projects
• engagement with innovative and creative technologies
• an emphasis on emerging design practices
• close links with creative practitioners.

Students are expected to develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

Career options
Career options include commercial and residential interior design, interactive and responsive environment design, museum and exhibition design, production design for film and television, theatre and performance design, and visual and spatial branding.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.
Applicants require a weighted average mark of 72.5 across the three years of the Bachelor of Design in Interior and Spatial Design (C10271) (see page 284).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian
student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**
The course is offered on a one-year, full-time basis. There are generally up to 15 contact hours a week. Lectures and studios are on campus during semester. Semesters are focused on design studios that incorporate advanced communication and technology skills with innovative design thinking and practice.

**Course structure**
Students must complete 48 credit points of honours subjects.

**Course completion requirements**

<table>
<thead>
<tr>
<th>STM90725 Core subjects</th>
<th>48cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total 48cp</td>
<td></td>
</tr>
</tbody>
</table>

**Other information**
Further information is available from the Building 6 Student Centre on: 
- telephone 1300 ask UTS (1300 275 887) 
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

**C09056v1 Bachelor of Design (Honours) in Animation**

*Award(s): Bachelor of Design (Honours) in Animation (BDesign(Hons))*

*CRICOS code: 074705K*

*Commonwealth-supported place?: Yes*

*Load credit points: 48*

*Course EFTSL: 1*

**Overview**
This course offers a practice-based approach to learning animation and places strong emphasis on two key concepts: dramatisation (including performance and character) and VFX (visual effects) design. It teaches students how to conceptualise, visualise and realise animation across many different types of media. Central to the course is the development of conceptual understanding of performance, narrative, characterisation, form, motion, time, space and aesthetics.

This course has a strong emphasis on drawing and image-making, dramatisation, physical movement and expression, teaching a full range of animation techniques and skills in industry-standard facilities.

Through a variety of interdisciplinary subjects, industry-focused projects and international studios, students develop the flexibility and confidence to work in the diverse environments of contemporary practice.

The course focuses on a set of animation studios that concentrate student learning through design projects. The animation studios integrate practice-oriented learning that allows time for a high level of individual presentation and in-depth consultation, complemented by a series of related context subjects that spans drawing and 2D animation practices to 3D and 2D digital practices.

The honours year allows exploration through the completion of an independent animated film/project.

**Course aims**
The course gives students skills and an outlook that extends beyond the university, and cultivates a collaborative and global vision of design.

As part of the ongoing development of key industry innovators, the course aims to create new approaches to 2D and 3D animation and VFX design, enabling graduates to better develop, adapt and respond to a range of creative partnerships and collaborations.

Students develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

**Career options**
The course opens up animation careers in film, television, and online and mobile application design. Options include: director, producer, storyboard artist, previsualisation (previs) artist, layout artist, concept artist, production designer, art director, character designer, animator, modeller, rigger, motion capture designer, lighting designer, matchmover/3D tracker, effects (FX) animator, roto designer, compositor, stop frame model animator (clayimation), and animation scriptwriter.

**Admission requirements**
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**
The course is offered on a one-year, full-time basis.

**Course completion requirements**

<table>
<thead>
<tr>
<th>STM90747 Core subjects</th>
<th>48cp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total 48cp</td>
<td></td>
</tr>
</tbody>
</table>

**Year 1**

**Autumn semester**

| 82710 Animation Studio: Advanced Animation Practice | 12cp |
| 82711 Animation Studio: Animation Project Pre-production | 12cp |

**Spring semester**

| 82800 Animation Studio: Animation Project/Production | 24cp |

**Other information**
Further information is available from the Building 6 Student Centre on: 
- telephone 1300 ask UTS (1300 275 887) 
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

**C09057v1 Bachelor of Human Movement (Honours)**

*Award(s): Bachelor of Human Movement (Honours) (BHM(Hons))*

*CRICOS code: 043289M*

*Commonwealth-supported place?: Yes*

*Load credit points: 48*

*Course EFTSL: 1*

*Location: Kuring-gai campus*

**Overview**
The honours program is designed to provide students with the resources to further develop and apply their research skills and to pursue special areas of interest in depth.

**Course aims**
The honours program aims to develop, at an advanced undergraduate level, knowledge of human movement through research; facilitate the completion of a substantive research thesis which focuses on theory, applied/professional issues or some combination of these; provide a direct pathway to graduate-level study; and make contributions to knowledge in the field of human movement.

**Career options**
Career options include exercise therapy and teaching of personal development, facility management, fitness and corporate health, health, physical education and outdoor education, health promotion, sports coaching, sports development, sports management, sports science and team conditioning.
Admission requirements
Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.
Applicants should have successfully completed the Bachelor of Human Movement (C10300) (see page 288), with a credit average or better in the final two full-time semesters.
Graduates from other institutions who have completed a comparable course and who meet the academic criteria are also considered for admission. In exceptional cases, consideration is given to applicants who have completed the Bachelor of Management in Leisure and Events (C10039) (see page 135), the Bachelor of Management in Sport and Exercise (C10301) (see page 289), the Bachelor of Human Movement in Tourism (C10040) (see page 136) or the Bachelor of Human Movement (C10300) (see page 288) at pass level. In such cases, outstanding professional achievements are taken into account.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The honours component is normally completed in one year of full-time or two years of part-time study. It is offered only at Kuring-gai campus.

Course structure
All students must complete three coursework subjects, each worth 6 credit points, and a major thesis of 30 credit points, totalling 48 credit points. The precise nature of each student's program is determined in consultation with the honours course coordinator, with the aim of choosing those subjects that will facilitate completion of the honours research thesis.
In choosing electives, students may:
• substitute subject Readings for Thesis with an elective subject with the approval of the course coordinator
• choose other senior undergraduate-level subjects with the approval of the course coordinator; these subjects may be taken within UTS: Health or elsewhere in the University.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>92054</td>
<td>Research and Statistics for Sport and Exercise</td>
<td>6cp</td>
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<tr>
<td>92055</td>
<td>Sport and Exercise Science Honours</td>
<td>18cp</td>
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<td>92056</td>
<td>Sport and Exercise Science Honours</td>
<td>24cp</td>
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<td></td>
<td>Dissertation 2</td>
<td>24cp</td>
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<tr>
<td></td>
<td>Total 48cp</td>
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</tr>
</tbody>
</table>

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail NMHResearch.StudentsAdmin@uts.edu.au
UTS Student Centre
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

CO9058v1 Bachelor of Management (Honours) in Sport and Exercise
Award(s): Bachelor of Management [Honours] in Sport and Exercise (BM[Hons])
CRICOS code: 05399D
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1

Overview
The honours program is designed to provide students with the resources to further develop and apply their research skills and to pursue special areas of interest in depth.

Course aims
The honours program aims to develop, at an advanced undergraduate level, knowledge of sport and exercise management through research; facilitate the completion of a substantive research thesis which focuses on theory, applied/professional issues or some combination of these; provide a direct pathway to graduate-level study; and make contributions to knowledge in the field of sport and exercise management.

Career options
Career options include corporate health and fitness manager, events manager, health and fitness counsellor, sporting facility manager, sports coach, sports development officer, sports manager and sports marketer.

Admission requirements
Applicants must have completed a recognised Australian bachelor's degree in a relevant discipline at an appropriate level.
Admission to the honours program is open to students who have successfully completed the Bachelor of Management in Sport and Exercise (C10301) (see page 289), with a credit average or better in the final two full-time semesters.
Graduates from other institutions who have completed a comparable course and who meet the academic criteria are also considered for admission.
In exceptional cases, consideration is given to applicants who have completed the Bachelor of Management in Sport and Exercise (C10301) (see page 289) at pass level. In such cases, outstanding professional achievements are taken into account.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The honours component is normally completed in one year of full-time or two years of part-time study. It is offered only at Kuring-gai campus.

Course structure
All students must complete three coursework subjects, each worth 6 credit points, and a major thesis of 30 credit points, totalling 48 credit points. The precise nature of each student's program is determined in consultation with the honours course coordinator, with the aim of choosing those subjects that will facilitate completion of the honours research thesis.
In choosing electives, students may:
• substitute subjects Readings for Thesis with an elective subject with the approval of the course coordinator
• complete both elective subjects in the first semester
• choose other senior undergraduate-level subjects with the approval of the course coordinator; these subjects may be taken from within UTS: Health or elsewhere in the University.
Course completion requirements

92054 Research and Statistics for Sport and Exercise  6cp
92057 Sport and Exercise Management Honours Dissertation 1  18cp
92058 Sport and Exercise Management Honours Dissertation 2  24cp
Total 48cp

Other information

Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail NMHResearch.StudentsAdmin@uts.edu.au
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

C09059v1 Bachelor of Design (Honours) in Integrated Product Design

Award(s): Bachelor of Design (Honours) in Integrated Product Design (BDesign(Hons))
CRICOS code: 077332K
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
The first intake for this course will be in 2016.

Overview

Integrated product design expands on the traditional field of industrial design to reflect the changed realities of the globalised design profession. The course offers a practice-based approach to learning through the integration of digital and analogue technologies across the broad field of integrated product design, as well as the potential for specialisation within highly contemporary and innovative integrated product design practices.

Structured around design studios, this dynamic course allows the development and realisation of major projects, as a professional design outcome. With a strong emphasis on creativity and technology, graduates move seamlessly from the design of material objects to the design of associated services together with the skills to maintain a specialist role within an interdisciplinary team.

Course aims

The Bachelor of Design in Integrated Product Design (Honours) centres on the integration of research and high-level design project engagement. This provides students with an opportunity to be challenged by high-level engagement with design, research and practice. Honours projects are managed by structuring technology-driven, practice-orientated and research-integrated learning.

Students explore design issues, learn and implement new strategies and combine theory and practice in the context of a rapidly changing technological and social environment. They are encouraged to develop intellectual independence and a research-driven methodology to product development that explores the boundaries of their profession.

Career options

Career options include corporate or in-house designer, design consultant, production manager, industrial designer, interaction designer, designer of smart objects, interactive product designer, system designer, furniture, product or accessories designer, design communication professional, design researcher, commercialisation professional.

Admission requirements

Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-year, full-time or part-time equivalent basis.

Course completion requirements

STM90789 Core subjects (Honours)  24cp
CBK90874 Project options  24cp
Total 48cp

Course program

The typical course program is shown below.

Year 1

Autumn semester
84905 Design in the Wild  12cp
84902 Industrial Design Major Project: Research and Conceptualisation  12cp

Spring semester
Select 24 credit points from the following options:  24cp
84906 Professional Studio  12cp
84904 Integrated Product Design Major Project: Realisation  12cp
84900 Superstudio  24cp

Other information

Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C09060v1 Bachelor of Design (Honours) in Fashion and Textiles

Award(s): Bachelor of Design (Honours) in Fashion and Textiles (BDesign(Hons))
CRICOS code: 077330A
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
The first intake for this course will be in 2016.

Overview

The Bachelor of Design in Fashion and Textiles has been designed to enable students to create pathways of learning as they progress through the degree with a flexible and diverse approach to learning. Emphasis throughout this practice-based course is placed on value, innovation, creativity and responsible practice. Students should develop flexibility and confidence in working in and across the diverse environments that constitute contemporary practice.

The course centres around design studios which integrate practice-oriented learning around specific projects, and parallel the process that professionals undertake in industry. The Honours year allows the development and realisation of major projects, as a professional design outcome.
Course aims
The course aims to produce graduates who aspire to the highest level of practice and are capable of adapting to the changing nature of the industry and research by developing creative solutions within the context of rapidly changing global fashion.

The course is designed to provide students with an outlook and ambition that extends beyond the university, cultivating a collaborative and global vision of design. The driving force of this course is critical and reflective design practice. It advances critical research skills and challenge students to question, analyse and redefine existing methodologies in fashion and textile practice.

Career options
Career options include buyer, fashion editor, fashion or textile designer, illustrator or stylist. Some students start their own business, while others work within an established company. Graduates may also continue studies at postgraduate level.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time or part-time equivalent basis.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>83900</td>
<td>Research Realisation: Major Project</td>
<td>24cp</td>
</tr>
<tr>
<td>83921</td>
<td>Research: Fashion and Textiles Dissertation</td>
<td>6cp</td>
</tr>
<tr>
<td>83922</td>
<td>Research: Professional Practice Identity</td>
<td>6cp</td>
</tr>
<tr>
<td>83923</td>
<td>Research: Fashion Concept Lab</td>
<td>12cp</td>
</tr>
<tr>
<td>87900</td>
<td>Design Research: Major Project VC</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
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</table>

Course program
The typical course program is shown below.

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>83921</td>
<td>Research: Fashion and Textiles Dissertation</td>
<td>6cp</td>
</tr>
<tr>
<td>83922</td>
<td>Research: Professional Practice Identity</td>
<td>6cp</td>
</tr>
<tr>
<td>83923</td>
<td>Research: Fashion Concept Lab</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>83900</td>
<td>Research Realisation: Major Project</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from the Building 6 Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

C09061v1 Bachelor of Design (Honours) in Visual Communication

Award(s): Bachelor of Design (Honours) in Visual Communication (BDesign(Hons))
CRICOS code: 077340K
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
The first intake for this course will be in 2016.

Overview
The Bachelor of Design in Visual Communication (Honours) offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The course allows students to develop and realise major design projects, paralleling the process that professionals undertake in industry. It allows students to consolidate an understanding of their own individual design language and gives them advanced levels of analysis, self-direction, motivation and self-management.

Career options
Career options include design roles in graphic design, publishing, advertising, animation, film, television, exhibitions, government agencies, not-for-profit and corporate sectors.

Admission requirements
Applicants must have completed a recognised Australian bachelor’s degree in a relevant discipline at an appropriate level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis. Students may study this program part time after consultation with the program director.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>87931</td>
<td>VC Extensions A</td>
<td>6cp</td>
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<tr>
<td>87932</td>
<td>VC Extensions B</td>
<td>6cp</td>
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<tr>
<td>87933</td>
<td>Design Research: Visualising Research</td>
<td>12cp</td>
</tr>
<tr>
<td>87900</td>
<td>Design Research: Major Project VC</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>
Course program
The typical course program is shown below.

Year 1
Autumn semester
87931 VC Extensions A 6cp
87932 VC Extensions B 6cp
87933 Design Research: Visualising Research 12cp

Spring semester
87900 Design Research: Major Project VC 24cp

Other information
Further information is available from the Building 6 Student Centre on:
phone: 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C10004v5 Bachelor of Design in Architecture
Award(s): Bachelor of Design in Architecture [BDes]
UAC code: 62010
CRICOS code: 044179J
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
The Bachelor of Design in Architecture by itself does not lead to professional recognition as an architect. To become a professional architect, students must complete this degree followed by the Master of Architecture (C04235) (see page 353) (an additional two years of full-time study or equivalent).

Overview
The Bachelor of Design in Architecture is the first of two degrees needed to become an architect. Students wishing to qualify for professional recognition as architects must also complete the Master of Architecture (C04235) (see page 353). UTS architecture courses provide the skills and knowledge necessary to practise in the architectural profession and to be a future leader in the design of the built environment.

The Bachelor of Design in Architecture provides students with a rich education oriented towards international practice and design experimentation. Teaching is hands-on and undertaken in teams using the most innovative digital design and fabrication technologies available to the architectural profession in dedicated studios and workshops.

UTS students have the benefit of learning from a cohesive team who are passionate about architecture and engage with the discipline as practitioners, researchers, educators and critics.

The first year is undertaken full-time, but in subsequent years students can enrol part-time, making it possible to gain significant professional experience before graduation.

Course aims
This degree provides a liberal introduction to the study of architecture as a discipline. Students gain a critical and ethical awareness of architecture as a discipline with much to offer in the face of many of today's most pressing societal challenges. It equips students to join other design fields or related disciplines, and it prepares students for the Master of Architecture degree.

Career options
Career options include architect (after completion of the Master of Architecture), urban designer, landscape architect, administrator, policy maker, researcher, educator, or journalist.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

UTS: Design, Architecture and Building may consider applications based on the results of the Special Tertiary Admissions Test (STAT) if students lack academic qualifications but have extensive professional experience. The STAT is conducted through the Universities Admissions Centre.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English.
Design and technology; visual arts; history and physics are recommended.

Course duration and attendance
The course duration is three years of full-time study (or equivalent). Year 1 is recommended to be taken in full-time mode.

Course structure
The course comprises a total of 144 credit points. The normal full-time load is four 6-credit-point subjects a semester, totalling 48 credit points a year for three years.
Year 1 comprises four compulsory 6-credit-point subjects a semester. Years 2 and 3 comprise one 6-credit-point elective and three compulsory subjects a semester.

Course completion requirements
STM90375 Core subjects 120cp
CBK90024 Sub-major/Electives 24cp
Total 144cp

Course program
The subjects listed below represent the standard full-time course. Under certain circumstances, students may apply for exemptions from some subjects. The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Year 1
Autumn semester
11211 Architectural Design: Forming 6cp
11212 Architectural History and Theory: Orientations 6cp
11205 Architecture Culture and Environment 6cp
11214 Architectural Design: Architectural Communications 6cp

Spring semester
11209 Architectural Design: Making 6cp
11216 Architectural History and Theory: Modernity and Modernism 6cp
11206 Introduction to Construction and Structural Synthesis 6cp
11208 Architectural Design: Architectural Communications 2 6cp

Year 2
Autumn semester
11221 Architectural Design: Strategy 6cp
11248 Architectural History and Theory: Urbanism and the City 6cp
11207 Architectural Design and Construction 6cp
Select 6 credit points of electives 6cp

Spring semester
11222 Architectural History and Theory: Critique 6cp
11227 Architectural Design: Performance 6cp
11225 Thermal Design and Environmental Control 6cp
Select 6 credit points of electives 6cp

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English.
Design and technology; visual arts; history and physics are recommended.

Course duration and attendance
The course duration is three years of full-time study (or equivalent). Year 1 is recommended to be taken in full-time mode.

Course structure
The course comprises a total of 144 credit points. The normal full-time load is four 6-credit-point subjects a semester, totalling 48 credit points a year for three years.
Year 1 comprises four compulsory 6-credit-point subjects a semester. Years 2 and 3 comprise one 6-credit-point elective and three compulsory subjects a semester.

Course completion requirements
STM90375 Core subjects 120cp
CBK90024 Sub-major/Electives 24cp
Total 144cp

Course program
The subjects listed below represent the standard full-time course. Under certain circumstances, students may apply for exemptions from some subjects. The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Year 1
Autumn semester
11211 Architectural Design: Forming 6cp
11212 Architectural History and Theory: Orientations 6cp
11205 Architecture Culture and Environment 6cp
11214 Architectural Design: Architectural Communications 6cp

Spring semester
11209 Architectural Design: Making 6cp
11216 Architectural History and Theory: Modernity and Modernism 6cp
11206 Introduction to Construction and Structural Synthesis 6cp
11208 Architectural Design: Architectural Communications 2 6cp

Year 2
Autumn semester
11221 Architectural Design: Strategy 6cp
11248 Architectural History and Theory: Urbanism and the City 6cp
11207 Architectural Design and Construction 6cp
Select 6 credit points of electives 6cp

Spring semester
11222 Architectural History and Theory: Critique 6cp
11227 Architectural Design: Performance 6cp
11225 Thermal Design and Environmental Control 6cp
Select 6 credit points of electives 6cp

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English.
Design and technology; visual arts; history and physics are recommended.

Course duration and attendance
The course duration is three years of full-time study (or equivalent). Year 1 is recommended to be taken in full-time mode.

Course structure
The course comprises a total of 144 credit points. The normal full-time load is four 6-credit-point subjects a semester, totalling 48 credit points a year for three years.
Year 1 comprises four compulsory 6-credit-point subjects a semester. Years 2 and 3 comprise one 6-credit-point elective and three compulsory subjects a semester.

Course completion requirements
STM90375 Core subjects 120cp
CBK90024 Sub-major/Electives 24cp
Total 144cp

Course program
The subjects listed below represent the standard full-time course. Under certain circumstances, students may apply for exemptions from some subjects. The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Year 1
Autumn semester
11211 Architectural Design: Forming 6cp
11212 Architectural History and Theory: Orientations 6cp
11205 Architecture Culture and Environment 6cp
11214 Architectural Design: Architectural Communications 6cp

Spring semester
11209 Architectural Design: Making 6cp
11216 Architectural History and Theory: Modernity and Modernism 6cp
11206 Introduction to Construction and Structural Synthesis 6cp
11208 Architectural Design: Architectural Communications 2 6cp

Year 2
Autumn semester
11221 Architectural Design: Strategy 6cp
11248 Architectural History and Theory: Urbanism and the City 6cp
11207 Architectural Design and Construction 6cp
Select 6 credit points of electives 6cp

Spring semester
11222 Architectural History and Theory: Critique 6cp
11227 Architectural Design: Performance 6cp
11225 Thermal Design and Environmental Control 6cp
Select 6 credit points of electives 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Responsibility and responsiveness to community needs.

field, and an appreciation of a professional ethic that emphasises valuation, urban planning and international real estate.

Such as the commercial property sector, property taxation, finance, and building provides a flexible property education that gives diverse knowledge and professional skills. UTS: Design, Architecture and Building offers a qualification fully recognised and sought after by employers and highly skilled property professionals able to enter the workforce with the degree, or seek leave of absence for no longer than one academic year after the award.

Further information about an honours qualification is available from the UTS Student Centre.

Further study at UTS

Students who have successfully completed this course may proceed to the Master of Architecture (C04235) (see page 353) as continuing students, provided they enrol in the next academic year after award of the degree, or seek leave of absence for no longer than one academic year after the award.

Other information

Further information is available from: Building 6 Student Centre telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au www.dab.uts.edu.au

Overview

The Bachelor of Property Economics is a functional and practical degree that prepares graduates for careers in real estate, valuation, funds and asset management, and property development. It produces highly skilled property professionals able to enter the workforce with a qualification fully recognised and sought after by employers and professional and industry bodies.

Graduates are renowned among employers for their hands-on and diverse knowledge and professional skills, UTS: Design, Architecture and Building provides a flexible property education that gives students the opportunity to work in the industry, leading to a large majority of students already working in the property sector by their final year of study.

During the course, students have the opportunity to complete practical assignments, apply for property cadetships and employment, network with property professionals, and undertake international exchange programs in a highly stimulating learning environment.

Staff include industry-recognised experts in property-related areas such as the commercial property sector, property taxation, finance, valuation, urban planning and international real estate.

Course aims

The course equips graduates with an understanding of the legalities, principles and processes required to fill a professional role in this field, and an appreciation of a professional ethic that emphasises responsibility and responsiveness to community needs.

Career options

Career options include positions in corporate real estate, property analysis, property and asset management, property development, property finance, property research, property sales and acquisitions, real estate agency (sales/leasing), tenant advisory services and valuation.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

UTS: Design, Architecture and Building may consider applications based on the results of the Special Tertiary Admissions Test (STAT) if students lack academic qualifications but have extensive professional experience. The STAT is conducted through the Universities Admissions Centre.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP, C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics and any two units of English.

Credit recognition

Students with prior academic or industrial experience are considered for credit recognition and may be given the opportunity to tailor their program of study in line with subjects completed previously at other institutions.

Course duration and attendance

The course is offered on a three-and-a-half-year, full-time or equivalent part-time basis.

Course structure

The course comprises a total of 168 credit points.

Course completion requirements

CBK09242 Sub-major / Electives (DAB) 24cp

STM90374 Core subjects 144cp

Total 168cp

Course program

The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Year 1

Autumn semester

16468 Introduction to the Built Environment 6cp

16467 Built Environment Law 6cp

16466 Built Environment Economics 6cp

16127 Building Technology 6cp

Spring semester

16137 Digital Built Environment 6cp

16234 Valuation Methods 6cp

16266 Sustainable Urban Design and Development 6cp

16267 Property Title and Spatial Data Analysis 6cp

Year 2

Autumn semester

16238 Research Methods 6cp

16233 Urban Planning Process 6cp

16236 Property Cash Flow Analysis 6cp

16235 Urban Economics 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Students are required to complete 264 credit points of study, comprising 168 credit points in property economics and 96 credit points in international studies.

The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

**Course aims**

The course equips students with an understanding of the legalities, principles and processes required to fill a professional role in this field and an appreciation of a professional ethic that emphasises responsibility and responsiveness to community needs. It also develops perspectives and understandings that enable graduates to meet the demands of an internationalised professional environment.

**Career options**

Career options include asset and portfolio manager, auctioneer, business agent, consultant, land economist, property analyst, property developer, property manager, real estate agent, researcher, stock and station agent, strata manager and valuer.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Property Economics (C10007) (see page 126).

There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

There are no prior language requirements for the international studies program (see page 87).

**Credit recognition**

Students with prior academic or industrial experience are considered for credit recognition, and may be given the opportunity to tailor their program of study in line with subjects completed previously at other institutions. Contact a UTS Student Centre for further information.

**Course duration and attendance**

The combined program is offered on a six-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

**Course structure**

Students are required to complete 264 credit points of study, comprising 168 credit points in property economics and 96 credit points in international studies.

The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

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**Spring semester**

16264 Accounting and Business Management 6cp
16232 Property and Political Economy 6cp
16231 Property Management 6cp
16331 Specialised Valuation 6cp

**Year 3**

**Autumn semester**

16332 Investment and Portfolio 6cp
16333 Statutory Valuation and Litigation 6cp
Select 6 credit points of electives 6cp

**Spring semester**

16237 Property Taxation 6cp
16335 Advanced Valuation 6cp
Select 6 credit points of electives 6cp

**Year 4**

**Autumn semester**

16338 International Property Investment 6cp
16261 Development Management 6cp
Select 6 credit points of electives 6cp

**Spring semester**

16469 Professional Practice 6cp
16345 Property Trusts and Funds 6cp
Select 6 credit points of electives 6cp

**Honours**

Students who achieve a minimum of a 70 per cent weighted average mark in their first two levels of study may be invited to undertake the honours program. This is taken as specialised subjects, focusing on property research and analysis, an honours research proposal and a thesis.

**Professional recognition**

Australian Property Institute (API); Real Estate Institute of NSW (REI); Royal Institution of Chartered Surveyors (RICS); Singapore Institute of Surveyors and Valuers (SISV)

**Other information**

Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

**C10011v5 Bachelor of Property Economics Bachelor of Arts in International Studies**

**Award(s):** Bachelor of Property Economics (BPropEc)
Bachelor of Arts in International Studies (BA)

**UAC code:** 609200
**CRICOS code:** 02192F
Commonwealth-supported place?: Yes
Load credit points: 264
Course EFTSL: 5.5
Location: City campus

**Overview**

The Bachelor of Property Economics is a functional and practical degree that prepares graduates for careers in real estate, valuation, funds and asset management, and property development. It produces highly skilled property professionals able to enter the workforce with a qualification fully recognised and sought after by employers, professional and industry bodies. The combined degree program in property economics and international studies provides students with a language and culture other than English.

Graduates are renowned among employers for their hands-on and diverse knowledge and professional skills. UTS: Design, Architecture and Building provides a flexible property education that gives students the opportunity to work in the industry, leading to a large majority of students already working in the property sector by their final year of study. Career options are also enhanced by international experience, making students more marketable to prospective employers.

During the course, students have the opportunity to complete practical assignments, apply for property cadetships and employment, network with property professionals, and undertake international exchange programs in a highly stimulating learning environment.

UTS: Design, Architecture and Building staff include industry-recognised experts in property-related areas such as the commercial property sector, property taxation, finance, valuation, urban planning and international real estate.

**Course aims**

The course equips students with an understanding of the legalities, principles and processes required to fill a professional role in this field and an appreciation of a professional ethic that emphasises responsibility and responsiveness to community needs. It also develops perspectives and understandings that enable graduates to meet the demands of an internationalised professional environment.

**Career options**

Career options include asset and portfolio manager, auctioneer, business agent, consultant, land economist, property analyst, property developer, property manager, real estate agent, researcher, stock and station agent, strata manager and valuer.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

There are no prior language requirements for the international studies program (see page 87).

**Credit recognition**

Students with prior academic or industrial experience are considered for credit recognition, and may be given the opportunity to tailor their program of study in line with subjects completed previously at other institutions. Contact a UTS Student Centre for further information.

**Course duration and attendance**

The combined program is offered on a six-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

**Course structure**

Students are required to complete 264 credit points of study, comprising 168 credit points in property economics and 96 credit points in international studies.

The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.
Overseas study

Students spend their fourth year of study at a university overseas.

Industrial training/professional practice

In addition to attending classes, students are required to gain practical experience in appropriate professional or industrial organisations. Full-time students undertake practical studies as part of the program included in core subjects. They are required to gain approved professional experience in the final two full-time years of their programs. Part-time students are required to enrol each year, except Year 1, in the professional/industrial experience subject and to supply details of the experience gained.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>CBK90242</td>
<td>Sub-major / Electives (DAB)</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90374</td>
<td>Core subjects</td>
<td>144cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>264cp</td>
</tr>
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</table>

Course program

The example program below is for a student commencing in Autumn semester and undertaking the course full time with the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16468</td>
<td>Introduction to the Built Environment</td>
</tr>
<tr>
<td></td>
<td>16467</td>
<td>Built Environment Law</td>
</tr>
<tr>
<td></td>
<td>16466</td>
<td>Built Environment Economics</td>
</tr>
<tr>
<td></td>
<td>16127</td>
<td>Building Technology</td>
</tr>
<tr>
<td>Spring</td>
<td>16234</td>
<td>Valuation Methods</td>
</tr>
<tr>
<td></td>
<td>16137</td>
<td>Digital Built Environment</td>
</tr>
<tr>
<td></td>
<td>16266</td>
<td>Sustainable Urban Design and Development</td>
</tr>
<tr>
<td></td>
<td>16267</td>
<td>Property Title and Spatial Data Analysis</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16238</td>
<td>Research Methods</td>
</tr>
<tr>
<td></td>
<td>976001</td>
<td>Foundations in International Studies</td>
</tr>
<tr>
<td></td>
<td>97601</td>
<td>German Language and Culture 1</td>
</tr>
<tr>
<td></td>
<td>16235</td>
<td>Urban Economics</td>
</tr>
<tr>
<td>Spring</td>
<td>16264</td>
<td>Accounting and Business Management</td>
</tr>
<tr>
<td></td>
<td>16232</td>
<td>Property and Political Economy</td>
</tr>
<tr>
<td></td>
<td>16231</td>
<td>Property Management</td>
</tr>
<tr>
<td></td>
<td>97602</td>
<td>German Language and Culture 2</td>
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Year 3

<table>
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<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16233</td>
<td>Urban Planning Process</td>
</tr>
<tr>
<td></td>
<td>16236</td>
<td>Property Cash Flow Analysis</td>
</tr>
<tr>
<td></td>
<td>97603</td>
<td>German Language and Culture 3</td>
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<tr>
<td>Spring</td>
<td>97604</td>
<td>German Language and Culture 4</td>
</tr>
<tr>
<td></td>
<td>976421</td>
<td>Contemporary Germany</td>
</tr>
<tr>
<td></td>
<td>16331</td>
<td>Specialised Valuation</td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>977420</td>
<td>In-country Study 1: Germany</td>
</tr>
<tr>
<td>Spring</td>
<td>978420</td>
<td>In-country Study 2: Germany</td>
</tr>
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</table>

Year 5

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16332</td>
<td>Investment and Portfolio</td>
</tr>
<tr>
<td></td>
<td>16333</td>
<td>Statutory Valuation and Litigation</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>16335</td>
<td>Advanced Valuation</td>
</tr>
<tr>
<td></td>
<td>16237</td>
<td>Property Taxation</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 6

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16261</td>
<td>Development Management</td>
</tr>
<tr>
<td></td>
<td>16344</td>
<td>Property Markets</td>
</tr>
<tr>
<td>Spring</td>
<td>16345</td>
<td>Property Trusts and Funds</td>
</tr>
<tr>
<td></td>
<td>16469</td>
<td>Professional Practice</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Honours

Students who achieve a minimum of a credit weighted average mark in their first two levels of study may be invited to undertake the honours program. The honours program is taken as specialised subjects, focusing on property research and analysis, an honours research proposal and a thesis.

Professional recognition

Australian Property Institute (API); Real Estate Institute of NSW (REI); Royal Institution of Chartered Surveyors (RICS); Singapore Institute of Surveyors and Valuers (SISV)

Other information

Further information on the property economics component is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au

C10019v3 Bachelor of Arts in Adult Education and Community Management

Award(s): Bachelor of Arts in Adult Education and Community Management (BA)
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)

This course is only offered to Aboriginal and Torres Strait Islander people.
This course is not offered in 2013.
This course is not offered to international students.

Overview

The Bachelor of Arts in Adult Education and Community Management addresses the professional development needs of Indigenous people who are directly involved with community management and development activities.

The integration of work-based learning and formal higher education, which is central to the curriculum of this course, requires students to apply theory to practice and reflect on this process in the context of their communities and community-managed organisations. The support services of Indigenous academic and administrative staff combined with the regular participation of Indigenous visiting lecturers provide a depth of support for the learning of Aboriginal and Torres Strait Islander students unequalled in any other Australian university.
Course aims
The course aims to provide an understanding of the context of community non-profit organisations and the theoretical frameworks underpinning the roles of these organisations in the political and economic environment. Key concepts are introduced and students are assisted in situating their organisations and interests within the wider environments in which they operate.

Career options
Career options include management of a range of non-profit or community-based organisations and community education programs.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

This course is only offered to Aboriginal and Torres Strait Islander people. Course entry is not based on ATAR.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 21; or DEEP; C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Applications
Universities Admissions Centre entry is not available. Students should apply directly to UTS.

External articulation
Students who have completed the TAFE Advanced Certificate in Community Management in the three years prior to entry to this course are eligible to apply for a block exemption that includes up to three subjects. Students should provide a TAFE statement of attainment attached to an application for exemption form.

Course duration and attendance
The course is completed in three years of full-time or six years of part-time study. Subjects are run in intensive block release format, requiring students to attend university for two or three five-day blocks per semester. Between blocks, students work independently and in small study groups utilising flexible learning strategies to learn in ways appropriate to individual needs.

Course structure
The course comprises 144 credit points of study.

The course has been designed in two stages:

- Stage 1 comprises the first 96 credit points of the course. This includes 30 credit points in adult education, 30 credit points in community management and 36 credit points in Aboriginal studies.
- Stage 2 comprises 12 credit points in Aboriginal studies and 36 credit points in either adult education or community management in any combination.

Course completion requirements

<table>
<thead>
<tr>
<th>Course completion requirements</th>
<th>144cp</th>
<th>Total 144cp</th>
</tr>
</thead>
</table>

Course program

A typical course program is provided below.

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>21134 Introduction to Community Management 6cp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21143 Current Issues in the Community Sector 6cp</td>
</tr>
<tr>
<td></td>
<td>21043 Australian Indigenous Studies 6cp</td>
</tr>
<tr>
<td></td>
<td>013953 Adult Learning in Context 6cp</td>
</tr>
<tr>
<td>Spring semester</td>
<td>21224 Indigenous Community Research 6cp</td>
</tr>
<tr>
<td></td>
<td>21225 Managing Human Resources in Indigenous Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>013980 Identity, Culture and Communication 6cp</td>
</tr>
<tr>
<td></td>
<td>21041 Australian Indigenous Social and Political Development 6cp</td>
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</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>013954 Program Design 6cp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21136 Resource Management in Nonprofit Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>21223 Social Analysis and Indigenous Community Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>013977 Teaching and Learning in Practice 6cp</td>
</tr>
<tr>
<td>Spring semester</td>
<td>21044 Strategic Management of Nonprofit Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>015033 Programming for Community Learning 6cp</td>
</tr>
<tr>
<td></td>
<td>21140 Monitoring Organisational Performance 6cp</td>
</tr>
<tr>
<td></td>
<td>21185 Social Change and Community Practice 6cp</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
</tr>
<tr>
<td>Autumn semester</td>
<td>21058 Management Project 6cp</td>
</tr>
<tr>
<td></td>
<td>013978 Research and Inquiry 6cp</td>
</tr>
<tr>
<td></td>
<td>21184 Government and Community Sector 6cp</td>
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<tr>
<td></td>
<td>21042 Australian Indigenous Studies Research Project 6cp</td>
</tr>
<tr>
<td>Spring semester</td>
<td>21183 Funds Development 6cp</td>
</tr>
<tr>
<td></td>
<td>21040 Advocacy and Social Change 6cp</td>
</tr>
<tr>
<td></td>
<td>21211 Indigenous Community Organisation Practicum 6cp</td>
</tr>
<tr>
<td></td>
<td>21045 Career Development in Indigenous Community Management 6cp</td>
</tr>
</tbody>
</table>

Other information

Further information is available from:

Sona Pearce
Indigenous Programs Coordinator
telephone +61 2 9514 3774
e-mail Sona.Pearce@uts.edu.au

C10020v4 Bachelor of Business Bachelor of Arts in International Studies

Award(s): Bachelor of Business (BBus) Bachelor of Arts in International Studies (BA)

UAC code: 609130
CRICOS code: 026187C

Commonwealth-supported place?: Yes

Load credit points: 240

Course EFTSL: 5

Location: City campus

Note(s)

The course is also available at Kuring-gai campus (see C10021) (see page 131).

Overview

The Bachelor of Business Bachelor of Arts in International Studies is offered jointly by UTS: Business and UTS: International Studies. The degree integrates the study of business with a major in the language and culture of another country.

Career options

Career options include positions in any branch of business or commerce as well as management of private and public sector enterprises ranging from start-ups to large multinational enterprises. Career options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Business at City campus (see page 131) or the Bachelor of Business at Kuring-gai campus (C10027) (see page 133). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

There are no prior language requirements for the international studies program (see page 87).

Credit recognition

Information on credit recognition in the business component is available from the Bachelor of Business (C10026) (see page 131).

Course duration and attendance

The course is offered as a full-time program over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure

All students must complete 240 credit points of study, comprising 144 credit points relating to business and 96 credit points relating to international studies. Full details of the Bachelor of Business component of the combined degree are available from the Bachelor of Business (C10026) (see page 131). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study

Students spend their fourth year of study at a university overseas.

Course completion requirements

CBK90005 Country major choice 96cp
STM90273 Core subjects (Business) 48cp
CBK90079 Stream choice 96cp
Total 240cp

Course program

The typical program shown below is for a full-time student who has chosen the Germany major as their International Studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Full details of the business component are available from the Bachelor of Business (C10026) (see page 131).

Full time - core subjects

Year 1

Autumn semester
26100 Integrating Business Perspectives 6cp
22107 Accounting for Business Decisions A 6cp
26134 Business Statistics 6cp
23115 Economics for Business 6cp
Spring semester
21129 Managing People and Organisations 6cp
24108 Marketing Foundations 6cp
25300 Fundamentals of Business Finance 6cp
22207 Accounting for Business Decisions B 6cp

Year 2

Autumn semester
976001 Foundations in International Studies 8cp
97601 German Language and Culture 1 8cp
Spring semester
97602 German Language and Culture 2 8cp
Year 3

Autumn semester
97603 German Language and Culture 3 8cp
Spring semester
97604 German Language and Culture 4 8cp
976421 Contemporary Germany 8cp
Year 4

Autumn semester
977420 In-country Study 1: Germany 24cp
Spring semester
978420 In-country Study 2: Germany 24cp
Year 5

Autumn semester
Select 24 credit points of electives 24cp
Spring semester
Select 24 credit points of electives 24cp

Other information

Further information on the business component is available from UTS: Business on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

www.business.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

www.internationalstudies.uts.edu.au

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Course diagram

<table>
<thead>
<tr>
<th>Bachelor of Business</th>
<th>Bachelor of Arts in International Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 x 6-credit-point core subjects</td>
<td>4 x 8-credit-point Language and culture subject</td>
</tr>
<tr>
<td>Total 48 credit points</td>
<td>32 credit points Foundation in International Studies</td>
</tr>
<tr>
<td></td>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

Standard stream (96cp)
First major
Total 48 credit points

Extended stream (96cp)
Extended major
Total 72 credit points

Second major or Two sub-majors or Sub-major plus electives
Total 48 credit points

In-country study
Two semesters
Total 24 credit points
C10021v4 Bachelor of Business
Bachelor of Arts in International Studies

Award(s): Bachelor of Business (BBus)
Bachelor of Arts in International Studies (BA)

UAC code: 609140
CRICOS code: 026187C
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: Kuring-gai campus

Notes
The course is also available at City campus (see C10020) (see page 129).

Overview
The Bachelor of Business Bachelor of Arts in International Studies is offered jointly by UTS: Business and UTS: International Studies. The degree integrates the study of business with a major in the language and culture of another country.

Career options
Career options include positions in any branch of business or commerce as well as management of private and public sector enterprises ranging from start-ups to large multinational enterprises. Career options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Business at City campus (C10026) (see page 131) or the Bachelor of Business at Kuring-gai campus (C10027) (see page 133). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Credit recognition
Information on credit recognition in the business component is available from the Bachelor of Business (C10027) (see page 133).

Course duration and attendance
The course is offered as a full-time program over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major. The international studies component of the course is mainly offered at City campus.

Course structure
All students must complete 240 credit points of study, comprising 144 credit points relating to business and 96 credit points relating to international studies. Full details of the Bachelor of Business component of the combined degree are available from the Bachelor of Business (C10027) (see page 133). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
CBK90005 Country major choice: 96cp
STM90273 Core subjects (Business): 48cp
CBK90679 Stream choice: 96cp
Total 240cp

Course program
For details of the course program see the Bachelor of Business Bachelor of Arts in International Studies (C10020) (see page 129).

Other information
Further information on the business component is available from UTS: Business on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
www.business.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10026v4 Bachelor of Business

Award(s): Bachelor of Business (BBus)

UAC code: 601030 (FT), 601035 (PT)
CRICOS code: 006487A
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Notes
This is the City campus version of the Bachelor of Business. It is also available at Kuring-gai campus (see C10027) (see page 133).

Overview
The Bachelor of Business offers students a sound background in all areas of business through common core subjects, in addition to in-depth knowledge in one or more chosen areas of interest.

This course provides an understanding of important aspects of business and offers a wide choice of majors and sub-majors. Students are encouraged to add a specialisation to their broad general training.

Course aims
The degree seeks to provide students with the knowledge, competencies and values necessary to develop critical, analytical and evaluative skills essential for a fulfilling and effective career in business.

Career options
Career options include accounting, banking, economics, finance, financial services, human resource management, international business, management, marketing, marketing communication, sport and tourism management.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics and any two units of English. Bridging courses are available.

External articulation

- TAFE NSW: UTS has an articulated credit transfer policy with TAFE NSW. Block credit may be granted for a number of completed TAFE courses. To be eligible for credit, students must have completed their course at a minimum Diploma (AQF) or higher. These courses must have been completed no earlier than two years prior to their commencement in the relevant course at UTS, i.e. students commencing in 2012 must have completed their TAFE courses in 2010 or later.
- INSEARCH: Students who have completed appropriate courses through INSEARCH, if admitted, will be given up to one year’s credit recognition in the Bachelor of Business.

Credit recognition

Students who are enrolled in the Bachelor of Business and have previously studied at another university or other recognised tertiary educational institution may be eligible for credit recognition if the subjects previously studied are deemed by UTS: Business to be equivalent to those specified for their course.

Students who have completed subjects at a recognised university may be granted exemptions for particular subjects at UTS or unspecified electives that are credit points granted without nominating a particular subject equivalent. To be considered for credit recognition, subjects must have been completed no more than 10 years prior to the commencement of the Bachelor of Business course. Undergraduate students who have been identified as having studied at another university prior to the commencement of their studies at UTS normally receive information on applying for credit recognition at approximately the same time as they receive their offer of a place at UTS.

Students who have completed a course at a private college are not eligible for any exemptions unless an articulation agreement between UTS: Business and the college is in place.

Course diagram

![Course Diagram](image)

Course duration and attendance

The course can be completed in a minimum of three years of full-time or six years of part-time study. The course may be completed through either a full-time or part-time attendance pattern, or a combination of these. Full-time study is usually undertaken at the rate of 24 credit points a semester. Students who wish to undertake more than the normal full-time load in one semester must have their study plan endorsed by a student adviser from a UTS Student Centre. Part-time study is usually undertaken at the rate of 12 credit points a semester. Part-time students must be prepared to attend one afternoon or morning class during each teaching week. Some subjects may be offered in an optional Summer session so that students may fast-track their studies.

Course structure

Students must complete 144 credit points, comprising eight foundation core subjects (48 credit points), and a standard stream (96 credit points) or an extended major stream (96 credit points). The standard stream comprises a first major (48 credit points), and either a second major (48 credit points), or two sub-majors (24 credit points each), or a single sub-major (24 credit points) in conjunction with elective subjects (24 credit points). The extended major stream comprises an extended major (72 credit points), and a sub-major (24 credit points) or elective subjects (24 credit points).

Students can choose any one of the following as a first major: Accounting, Economics, Finance, Human Resource Management, International Business, Management, Marketing, Financial Services or Marketing Communication.

The choice of second major includes those listed above as well as Business Law, Information Technology, Sport Management or Tourism Management.

Electives or structured elective sequences (totalling 24 credit points) can be taken from any faculty in the University, or from another university or its equivalent, with UTS: Business approval.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Details</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90273</td>
<td>Core subjects (Business)</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90679</td>
<td>Stream choice</td>
<td>96cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>144cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course program

Typical full-time and part-time programs for the core subjects are provided below.

Typical full-time program for core subjects

Year 1

Autumn semester
26100 Integrating Business Perspectives  6cp
22107 Accounting for Business Decisions A  6cp
23115 Economics for Business  6cp
26134 Business Statistics  6cp
Spring semester
22207 Accounting for Business Decisions B  6cp
21129 Managing People and Organisations  6cp
24108 Marketing Foundations  6cp
25300 Fundamentals of Business Finance  6cp

Typical part-time program for core subjects

Year 1

Autumn semester
26100 Integrating Business Perspectives  6cp
22107 Accounting for Business Decisions A  6cp
Spring semester
23115 Economics for Business  6cp
26134 Business Statistics  6cp
Year 2

Autumn semester
21129 Managing People and Organisations  6cp
22207 Accounting for Business Decisions B  6cp
Spring semester
25300 Fundamentals of Business Finance  6cp
24108 Marketing Foundations  6cp

List of majors

MAJ08437 Accounting  48cp
MAJ09401 Business Law  48cp
MAJ09209 Economics  48cp
MAJ08440 Finance  48cp
MAJ08068 Financial Services  48cp
MAJ08446 Human Resource Management  48cp
MAJ02041 Information Technology  48cp
MAJ08442 International Business  48cp
MAJ08438 Management  48cp
MAJ08441 Marketing  48cp
MAJ08116 Marketing Communication  48cp
MAJ08445 Sport Management  48cp
MAJ08443 Tourism Management  48cp

List of sub-majors

SMJ08131 Advanced Advertising  24cp
SMJ08137 Advertising  24cp
SMJ08036 Business Information Systems  24cp
SMJ09030 Business Law  24cp
SMJ09058 Econometrics  24cp
SMJ09028 Economics  24cp
SMJ08203 Event Management  24cp
SMJ08123 Finance  24cp
SMJ08214 Financial Planning  24cp
SMJ08116 Financial Reporting  24cp
SMJ08215 Financial Services  24cp
SMJ08141 Human Resource Development  24cp
SMJ08128 Human Resource Management  24cp
SMJ08117 International Accounting  24cp
SMJ08139 International Business Studies  24cp
SMJ08129 International Management  24cp
SMJ09034 International Studies  24cp
SMJ02037 Information Technology  24cp
SMJ09035 Language other than English  24cp
SMJ08130 Management  24cp
SMJ08109 Management Consulting  24cp
SMJ08195 Management Reporting  24cp
SMJ08138 Marketing  24cp
SMJ08132 Marketing Research  24cp
SMJ01007 Mathematics  24cp
SMJ08211 Public Relations  24cp
SMJ01025 Quantitative Management  24cp
SMJ08120 Small Business Accounting  24cp
SMJ09006 Specialist Country Studies  24cp
SMJ08126 Sport Management  24cp
SMJ01009 Statistics  24cp
SMJ08204 Strategic Marketing  24cp
SMJ08033 Taxation Law  24cp
SMJ08127 Tourism Management  24cp

List of extended majors

MAJ09402 Extended Economics  72cp
MAJ08060 Extended Finance  72cp
MAJ08046 Extended Management  72cp
MAJ08063 Extended Marketing  72cp

Honours

The Bachelor of Business (Honours) (C09004) (see page 108) is available with an additional one year of full-time study (or part-time equivalent) for eligible students.

Professional recognition

The Accounting major meets the educational membership requirements for CPA Australia, Institute of Chartered Accountants in Australia, Institute of Public Accountants and Chartered Institute of Management Accountants.

Students who complete the Human Resource Management major are eligible to apply for the professional member status and/or advancement to a higher level of membership of the Australian Human Resources Institute.

Students who complete a Marketing major are eligible to apply for Associate Membership of the Australian Marketing Institute.

The Bachelor of Business covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered.

UTS is a CFA Institute University Program Partner based on the Bachelor of Business with a Finance major.

Other information

Further information is available from UTS: Business on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- www.business.uts.edu.au

C10027v4 Bachelor of Business

Award(s): Bachelor of Business (BBus)

UAC code: 601045 (FT)
CRICOS code: 067092D
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Note(s)

This is the Kuring-gai campus version of the Bachelor of Business. It is also available at City campus (see C10026) (see page 131).

Overview

The Bachelor of Business offers students a sound background in all areas of business through common core subjects, in addition to in-depth knowledge in one or more chosen areas of interest.

This course provides a basic understanding of important aspects of business and a wide choice of majors/sub-majors. Students are encouraged to add a specialisation to their broad general training.

Course aims

The degree seeks to provide students with the knowledge, competencies and values necessary to develop critical, analytical and evaluative skills essential for a fulfilling and effective career in business.

Career options

Career options include accounting, economics, finance, financial services, human resource management, international business, management, marketing, marketing communication, sport or tourism management.
Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English. Bridging courses are available.

External articulation
- TAFE NSW: UTS has an articulated credit transfer policy with TAFE NSW. Block credit may be granted for a number of completed TAFE courses. To be eligible for credit, students must have completed their course at a minimum Diploma (AQF) or higher. These courses must have been completed no earlier than two years prior to their commencement in the relevant course at UTS, i.e. students commencing in 2012 must have completed their TAFE courses in 2010 or later.
- INSEARCH: Students who have completed appropriate courses through INSEARCH, if admitted, are given up to one year’s credit recognition in the Bachelor of Business.

Credit recognition
Students who are enrolled in the Bachelor of Business and have previously studied at another university or other recognised tertiary educational institution may be eligible for credit recognition if the subjects previously studied are deemed by UTS: Business to be equivalent to those specified for their course.

Students who have completed subjects at a recognised university may be granted exemptions for particular subjects at UTS or unspecified electives which are credit points granted without nominating a particular subject equivalent. To be considered for credit recognition, subjects must have been completed no more than 10 years prior to the commencement of the Bachelor of Business course. Undergraduate students who have been identified as having studied at another university prior to the commencement of their studies at UTS normally receive information on applying for credit recognition at approximately the same time as they receive their offer of a place at UTS.

Students who have completed a course at a private college are not eligible for any exemptions unless an articulation agreement between UTS: Business and the college is in place.

Course duration and attendance
The course can be completed in a minimum of three years of full-time study (at Kuring-gai campus). Full-time study is usually undertaken at the rate of 24 credit points a semester. Students who wish to undertake more than the normal full-time load in one semester must have their study plan endorsed by a student adviser from a UTS Student Centre. Some subjects may be offered in an optional Summer session so that students may fast-track their studies.

Course structure
Students must complete 144 credit points, comprising eight foundation core subjects (48 credit points), and a standard stream (96 credit points) or an extended major stream (96 credit points). The standard stream comprises a first major (48 credit points), and either a second major (48 credit points), or two sub-majors (24 credit points each), or a single sub-major (24 credit points) in conjunction with elective subjects (24 credit points). The extended major stream comprises an extended major (72 credit points), and a sub-major (24 credit points) or elective subjects (24 credit points).

Students can choose any one of the following as a first major: Accounting, Economics, Finance, Human Resource Management, International Business, Management, Marketing, Financial Services or Marketing Communication.
The choice of second major includes those listed above as well as Business Law, Information Technology, Sport Management or Tourism Management.
Electives or structured elective sequences (totaling 24 credit points) can be taken from any faculty in the University, or from another university or its equivalent, with UTS: Business approval.

Course completion requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90273 Core subjects (Business)</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90679 Stream choice</td>
<td>96cp</td>
</tr>
<tr>
<td>Total</td>
<td>144cp</td>
</tr>
</tbody>
</table>

Course program
A typical full-time program for the core subjects is provided below. For details on the available majors and sub-majors refer to the Bachelor of Business (C10026) (see page 131). Students should note that all major and sub-majors listed may not be available at Kuring-gai campus.

Typical full-time program for core subjects

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn semester</td>
<td>26100 Integrating Business Perspectives 6cp</td>
</tr>
<tr>
<td></td>
<td>22107 Accounting for Business Decisions A 6cp</td>
</tr>
<tr>
<td></td>
<td>26134 Business Statistics 6cp</td>
</tr>
<tr>
<td></td>
<td>23115 Economics for Business 6cp</td>
</tr>
<tr>
<td>Spring semester</td>
<td>21129 Managing People and Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>24108 Marketing Foundations 6cp</td>
</tr>
<tr>
<td></td>
<td>25300 Fundamentals of Business Finance 6cp</td>
</tr>
<tr>
<td></td>
<td>22207 Accounting for Business Decisions B 6cp</td>
</tr>
</tbody>
</table>

Honours
The Bachelor of Business (Honours) (C09004) (see page 108) is available with an additional one year of full-time study (or part-time equivalent) for eligible students.

Professional recognition
The Accounting major meets the educational membership requirements for CPA Australia, Institute of Chartered Accountants in Australia, Institute of Public Accountants and Chartered Institute of Management Accountants.

Students who complete the Human Resource Management major are eligible to apply for the professional member status and/or advancement to a higher level of membership of the Australian Human Resources Institute.

The Bachelor of Business covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered.

UTS is a CPA Institute program partner based on the Bachelor of Business with a major in finance.

Other information
Further information is available from UTS: Business on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
www.business.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10039v10 Bachelor of Management in Events and Leisure

Award(s): Bachelor of Management in Events and Leisure (BM)
UAC code: 601065
CRICOS code: 008759K
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Overview
The Bachelor of Management in Events and Leisure provides students with the knowledge and professional skills necessary to operate within the events and leisure industry.

This course provides students with a broad understanding of leisure behaviour and the event and experience industries that enrich the lives of individuals, organisations and Australian communities. It examines in some depth the ways in which sporting, recreational, touristic, entertainment and arts events are produced and used in the commercial, public and not-for-profit sectors to satisfy the community’s need for economic development, social interaction and as important fund raising functions for causes and charities. The degree provides the skills to design, plan, create, implement, manage and market events from community events such as sporting and cultural celebrations, to major and mega events such as the Olympic Games. These technical skills are set within contemporary management practice that includes sustainability, ethics, entrepreneurship, strategic management, consultancy and research.

The degree develops the student’s capabilities as a manager, to work independently and in team environments, supported by strong critical, analytical, written, verbal and interpersonal skills.

Course aims
Graduates of this program develop theoretical knowledge and skills relevant to the organisation, research, planning, administration, marketing and equitable distribution of event and leisure services.

Career options
Career options include event coordinator/manager, meetings planner, entertainment, venue or facility manager, festival organiser, leisure and recreation planner, marketing manager for arts, leisure and events organisations, sponsor manager.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Non-current school leavers should submit a personal statement to UTS by 30 November.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 6.0; or TOEFL: internet based: 79-93 overall with a writing score of 6.0; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Any two units of English.

Credit recognition
Students may apply for credit recognition in subjects in which they consider themselves eligible. Equivalence of subject matter is the main criterion for credit recognition in a subject successfully completed at another institution.

Course duration and attendance
The course is taught on a full-time basis. The normal time for completion is three years.

Full-time students should be aware that they are required to attend evening classes as part of their program of study. This course is offered at Kuring-gai campus only.

Course structure
All students must complete a total of 144 credit points made up of 24 subjects, comprising 20 core and four elective subjects.

The electives (totaling 24 credit points) are to be chosen from a prescribed list of subjects in events, leisure, sport, tourism or arts management. The four electives chosen from the prescribed list may comprise a Tourism Management or Sport Management sub-major.

With the approval of the undergraduate program director, two of the four electives may be chosen from outside the prescribed list of subjects.

Industrial training/professional practice
The course has an extensive compulsory internship program and a capstone industry-based research project.

Course completion requirements
STM90288 Core subjects 120cp
CBK90190 Electives Total 144cp

Course program
A typical course program is provided below.

Year 1
Autumn semester
23115 Economics for Business 6cp
24108 Marketing Foundations 6cp
27126 Event and Leisure Industries 6cp
27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp

Spring semester
22107 Accounting for Business Decisions A 6cp
27703 Event Management 6cp
21129 Managing People and Organisations 6cp
27326 Diversity Management 6cp

Year 2
Autumn semester
27344 Research Foundations for Leisure Sport and Tourism 6cp
27115 Arts and Entertainment Industries 6cp
27192 Event Impacts and Legacies 6cp
Select 6 credit points of electives 6cp

Spring semester
27350 Professional Internship (Capstone) 6cp
27628 Law for Leisure, Sport and Tourism 6cp
27323 Government and Policy for Leisure, Sport and Tourism 6cp
Select 6 credit points of electives 6cp

Year 3
Autumn semester
27216 Venue Management 6cp
27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
27361 Industry Project 1 6cp
Select 6 credit points of electives 6cp

Spring semester
27362 Industry Project 2 6cp
27116 e-Marketing and Management of Services 6cp
27345 Creating Event Experiences 6cp
Select 6 credit points of electives 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Honours
The Bachelor of Management (Honours) in Events and Leisure (C09005) (see page 109) is available to eligible students with an additional one year of full-time or two years of part-time study.

Other information
Further information is available from UTS: Business on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
www.business.uts.edu.au

C10040v8 Bachelor of Management in Tourism
Award(s): Bachelor of Management in Tourism (BM)
UAC code: 601085
CRICOS code: 000383B
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Overview
The Bachelor of Management in Tourism provides students with a strong understanding of the distinctive features of tourism and the tourism industry, with the knowledge and range of skills that provide the flexibility to manage effectively in an environment of significant growth and change. The course also develops students’ understanding of tourism as an increasingly important social phenomenon, in order to foster a critical approach to this field of study.

The course takes a broad approach studying the phenomenon of tourism and tourists, the society in which tourism takes place, the relationship of tourism to sustainability and the role of the different tourism industry sectors. The course develops ethical, professional values and skills for working in the various fields of tourism, such as, strategic management, marketing, research and policy.

Career options
Career options include management, marketing and policy-analysis roles in national and regional tourism offices, hotels, airlines, tour operations, tourist attractions and events.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Non-current school leavers should submit a personal statement to UTS by 30 November.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP, C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Any two units of English.

Credit recognition
Students may apply for credit recognition in subjects in which they consider themselves eligible. Equivalence of subject matter is the main criterion for credit recognition in a subject successfully completed at another institution.

Course duration and attendance
The course is taught on a full-time basis. The normal time for completion is three years. Students should be aware that they may be required to attend evening classes.

This course is offered at Kuring-gai campus only.

Course structure
All students must complete a total of 144 credit points made up of 24 subjects, comprising 20 core and four elective subjects.
The electives (totalling 24 credit points) are to be chosen from a prescribed list of subjects in events, leisure, sport, tourism or arts management. The four electives chosen from the prescribed list may comprise an Event Management or Sport Management sub-major.
With the approval of the undergraduate program director, two of the four electives may be chosen from outside the prescribed list of subjects.

Industrial training/professional practice
The course has an extensive compulsory internship program and a capstone industry-based project.

Course completion requirements
<table>
<thead>
<tr>
<th>Core subjects</th>
<th>Sub-major/Four electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>120cp</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Total 144cp

Course program
A typical course program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>24108 Marketing Foundations</td>
<td>27648 The Tourism Business</td>
</tr>
<tr>
<td>23115 Economics for Business</td>
<td>27327 Tourism and Sustainability</td>
</tr>
<tr>
<td>27184 Dimensions of Tourism</td>
<td></td>
</tr>
<tr>
<td>27342 Sociocultural Concepts for Leisure, Sport and Tourism</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

Year 2

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>27185 The Tourist Experience</td>
<td>27628 Law for Leisure, Sport and Tourism</td>
</tr>
<tr>
<td>27344 Research Foundations for Leisure Sport and Tourism</td>
<td>27350 Professional Internship (Capstone)</td>
</tr>
<tr>
<td>27642 Tourism Marketing</td>
<td>27323 Government and Policy for Leisure, Sport and Tourism</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

Year 3

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>27361 Industry Project 1</td>
<td>27116 e-Marketing and Management of Services</td>
</tr>
<tr>
<td>27324 Strategic Management in Leisure, Sport and Tourism Organisations</td>
<td>27348 Critical Issues in Global Tourism</td>
</tr>
<tr>
<td>27523 Planning for Sustainable Destinations</td>
<td>27362 Industry Project 2</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

Honours
The Bachelor of Management (Honours) in Tourism (C09007) (see page 109) is available to eligible students with an additional year of full-time study, or two years of part-time study.

Other information
Further information is available from UTS: Business on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
www.business.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10044V7 Bachelor of Management in Tourism Bachelor of Arts in International Studies
Award(s): Bachelor of Management in Tourism (BM)
Bachelor of Arts in International Studies (BA)
UAC code: 609110
CRICOS code: 026190G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: Kuring-gai campus
Overview
This degree program develops understanding of tourism as an increasingly important social phenomenon in order to foster a critical approach to this field of study. The course combines a professional degree with immersion in another language and culture, enhancing professional training and career options.
The course is distinctive in six ways: it follows a broad and holistic approach to the study of tourism; it is interdisciplinary, in that it makes use of systems theory to create a framework for subsequent interdisciplinary description, analysis and inquiry; it gives full coverage to all of the tourism sector; it has a practical hands-on component; it has an industry experience component that includes a minimum of 10 weeks’ work experience; and it provides the opportunity to live and study in another country.
Course aims
The degree provides students with a strong understanding of the distinctive features of tourism and the tourism industry, with the knowledge and skills to manage effectively in an environment of significant growth and change. This degree integrates tourism management with a major in the language and culture of another country.
Career options
Career options include management, marketing and policy analysis roles in such areas as airlines, hotels, regional planning and development, special events, tour operators and tourist attractions. Career options are enhanced by international experience, making students more marketable to prospective employers.
Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Management in Tourism (C10040) (see page 136). There is a range of entry levels to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).
Credit recognition
For credit recognition details, see the Bachelor of Management in Tourism (C10040) (see page 136).
Course duration and attendance
The course is offered as a full-time program over five years. Students may be required to attend some evening classes and undertake a minimum of 10 weeks’ industry-related work experience during the course. Students spend two semesters of study at a university or other higher education institution in the country of their major. The international studies component of the course is mainly offered at City campus.
Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to management in tourism and 96 credit points relating to international studies. For full details of the Bachelor of Management in Tourism component of the combined degree, refer to the Bachelor of Management in Tourism (C10040) (see page 136). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.
Overseas study
Students spend their fourth year of study at a university overseas.
Industrial training/professional practice
This course has a professional internship component that includes a minimum of six weeks’ work experience.
Course completion requirements
CBK90005 Country major choice
96cp
STM00289 Core subjects
120cp
CBK90190 Electives
24cp
Total 240cp
Course diagram
Bachelor of Management in Tourism
20 core subjects
Total 120 credit points
Electives
Total 24 credit points
with at least 12 credit points
from the approved list
Bachelor of Arts in International Studies
4 x 8-credit-point
Languages and Culture subjects
Foundations in International Studies
Contemporary Society
Total 48 credit points
In-country Study
Two semesters
Total 48 credit points
Course program
The typical program shown below is for a full-time student who has chosen the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.
Year 1
Autumn semester
24108 Marketing Foundations
6cp
23115 Economics for Business
6cp
27184 Dimensions of Tourism
6cp
27342 Sociocultural Concepts for Leisure, Sport and Tourism
6cp
Spring semester
21129 Managing People and Organisations
6cp
22107 Accounting for Business Decisions A
6cp
27327 Tourism and Sustainability
6cp
27648 The Tourism Business
6cp
Year 2
Autumn semester
27344 Research Foundations for Leisure Sport and Tourism
6cp
27642 Tourism Marketing
6cp
976001 Foundations in International Studies
8cp
97601 German Language and Culture 1
8cp
Undergraduate courses
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Career options

Career options include activities and cultural events coordinator at a university or college, manager or administrator in leisure, tourism, sports, entertainment or the arts, marketing of sport and leisure, outdoor recreation promotion, and recreation planner/operator in local government. Career options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements

Applicants must have completed an Australian Year 12 qualification. Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Management in Events and Leisure (C10039) (see page 135). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

There are no prior language requirements for the international studies program (see page 87).

Credit recognition

For credit recognition, see the Bachelor of Management in Events and Leisure (C10039) (see page 135).

Course duration and attendance

The course is offered as a full-time program over five years. Students may be required to attend some evening classes and undertake a minimum of 10 weeks’ industry-related work experience during the course. Students spend two semesters of study at a university or other higher education institution in the country of their major. The international studies component of the course is mainly offered at City campus.

Course structure

Students must complete 240 credit points of study, comprising 144 credit points relating to management in events and leisure and 96 credit points relating to international studies. For full details of the Bachelor of Management in Events and Leisure component of the combined degree, refer to the Bachelor of Management in Events and Leisure (C10039) (see page 135). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study

Students spend their fourth year of study at a university overseas.

Industrial training/professional practice

This course has a professional internship component that includes a minimum of six weeks’ work experience.

Course completion requirements

<table>
<thead>
<tr>
<th>Course completion requirements</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005 Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>STM90288 Core subjects</td>
<td>120cp</td>
</tr>
<tr>
<td>CBK90190 Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>Total 240cp</td>
<td></td>
</tr>
</tbody>
</table>
### Course diagram

#### Bachelor of Management in Events and Leisure
- 20 core subjects
- Total 120 credit points

#### Bachelor of Arts in International Studies
- 4 x 8-credit-point Language and Culture subjects
- Foundations in International Studies
- Contemporary Society
- Total 48 credit points

#### Electives
- Total 24 credit points

#### In-country Study
- Two semesters
- Total 48 credit points

### Course program

The typical program shown below is for a full-time student who has chosen the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

#### Typical full-time program

**Year 1**

**Autumn semester**
- 24108 Marketing Foundations 6cp
- 23115 Economics for Business 6cp
- 27126 Event and Leisure Industries 6cp
- 27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp

**Spring semester**
- 21129 Managing People and Organisations 6cp
- 27236 Diversity Management 6cp
- 27703 Event Management 6cp
- 22107 Accounting for Business Decisions A 6cp

**Year 2**

**Autumn semester**
- 27344 Research Foundations for Leisure Sport and Tourism 6cp
- 27115 Arts and Entertainment Industries 6cp
- 97601 Foundations in International Studies 8cp
- 97601 German Language and Culture 1 8cp

**Spring semester**
- 27116 e-Marketing and Management of Services 6cp
- 27232 Government and Policy for Leisure, Sport and Tourism 6cp
- 97602 German Language and Culture 2 8cp
- Select 6 credit points of electives 6cp

**Year 3**

**Autumn semester**
- 27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
- 27192 Event Impacts and Legacies 6cp
- 97603 German Language and Culture 3 8cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 27628 Law for Leisure, Sport and Tourism 6cp
- 27216 Venue Management 6cp
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp

**Year 4**

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp

### Year 5

**Autumn semester**
- 27361 Industry Project 1 6cp
- 27350 Professional Internship (Capstone) 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 27362 Industry Project 2 6cp
- 27345 Creating Event Experiences 6cp
- Select 6 credit points of electives 6cp

### Other information

Further information on the course aims is available from UTS: Business on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- www.business.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au

### C10048v6 Bachelor of Management in Tourism and Hospitality

**Award(s):** Bachelor of Management in Tourism and Hospitality (BM)
**UAC code:** 601095
**CRICOS code:** 040685A
**Commonwealth-supported place?:** Yes
**Load credit points:** 144
**Course EFTSL:** 3
**Location:** Kuring-gai campus

**Note(s)**

This course is not offered to recent school leavers. Specific prior study conditions apply.

### Overview

This course is a pathway program developed in conjunction with TAFE NSW. It explores the collaborative linkages and networks that are an integral part of the tourism industry and which need to be managed so that a hospitality organisation achieves its stated objectives. Strategies to ensure the sustainability of a destination’s tourism product and marketing/management effort are highlighted. The course broadens students’ understanding of the hospitality sector’s role in tourism. It highlights tourism-related environmental factors that influence and are affected by hospitality operations. The course develops ethical, professional values and skills for working in tourism and hospitality.

### Course aims

The UTS component of the course seeks to build on the vocational skills and knowledge acquired by students in the hospitality management courses offered by TAFE NSW.

### Career options

Career options include hotel and resort management, research and policy development for government tourism authorities, destination management and marketing, wholesaling and tour operations.

### Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Applicants must have completed either the Advanced Diploma in Hospitality (Management) from TAFE NSW, or the Advanced Diploma in Hospitality Management and the Advanced Diploma in Tourism Management from Kenvale College of Tourism and Hospitality Management.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Local students

Commonwealth-supported place applicants are assessed as non-current school leaver students through the Universities Admissions Centre.

International students

Overseas full-fee-paying students are admitted through UTS International provided they meet the applicable English language requirements for UTS courses.

Assumed knowledge

Any two units of English.

External articulation

Applicants must have either the Advanced Diploma in Hospitality (Management) from TAFE NSW at credit level or higher, or the Advanced Diploma in Hospitality from Kenvale College at credit level or higher (credit recognition is being reviewed and subject to variation). Successful applicants are granted credit recognition for advanced diploma studies, and must complete 72 credit points to attain the degree.

Course duration and attendance

The course duration is one-and-a-half years of full-time study (following completion of the Advanced Diploma in Hospitality (Management) from TAFE NSW prior to entry) if students commence the course in Autumn semester.

This course is offered at Kuring-gai campus only.

Course structure

Students from the Advanced Diploma in Hospitality (Management) receive a block exemption of 72 credit points for their hospitality studies. Completion of a further 72 credit points (as listed in the course program) leads to the award of the Bachelor of Management in Tourism and Hospitality.

Course completion requirements

CBK90525 Electives (TAFE articulation) 72cp
STM90723 Core subjects 72cp
Total 144cp

Course program

A typical course program for students who need to complete 72 credit points is shown below.

Electives available within the program may be chosen from a wide range of subjects offered leisure, sport and tourism. Approval for electives outside these subjects should be sought from the undergraduate program director.

Year 1

Autumn semester

27184 Dimensions of Tourism 6cp
27185 The Tourist Experience 6cp
27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp

Spring semester

27115 e-Marketing and Management of Services 6cp
27327 Tourism and Sustainability 6cp
27348 The Tourism Business 6cp
27348 Critical Issues in Global Tourism 6cp

Year 2

Autumn semester

27523 Planning for Sustainable Destinations 6cp
27642 Tourism Marketing 6cp
22107 Accounting for Business Decisions A 6cp
23115 Economics for Business 6cp

Other information

Further information is available from UTS: Business on:

telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

www.business.uts.edu.au

C10061v4 Bachelor of Engineering Diploma in Engineering Practice

Award(s): Bachelor of Engineering in [name of Engineering major]
Diploma in Engineering Practice [BE DipEngPrac]

UAC code: 603005 (Civil and Environmental Engineering), 603015 (Civil Engineering), 603018 (Civil Engineering (Structures)), 603025 (ICT Engineering (Computer Systems)), 603035 (Electrical Engineering), 603055 (Civil Engineering), 603060 (ICT Engineering), 603065 (ICT Engineering (Telecommunications)), 603085 (ICT Engineering (Software)), 603095 (Civil Engineering (Construction)), 630105 (General degree, no major), 630115 (Mechanical and Mechatronic Engineering), 630125 (Innovation Engineering), 630130 (Biomedical Engineering)

CRICOS code: 025003B

Commonwealth-supported place?: Yes
Load credit points: 204
Course EFTSL: 4.25
Location: City campus

Overview

This program is a comprehensive preparation for careers in the professional practice of engineering. Students learn to deal with complex systems and manage large-scale projects using the most appropriate emerging technologies.

The course offers an authentic, professionally focused and practice-based education program with two semesters of internship (normally paid) in a real workplace setting. A number of the areas of study are available with explicit specialisations. For example, ICT Engineering is available with sub-majors in Software, Computer Systems and Telecommunications. Civil Engineering is available with specialisations in Structures and Construction. Students can also focus on or broaden their studies by completing electives. By appropriate choice of electives, students can gain knowledge in a second engineering discipline, obtain a sub-major in a different field or study postgraduate degree subjects and apply for credit towards an engineering master’s degree.

Course aims

The course aims to equip graduates with the skills and attributes needed for professional practice and leadership. It is based on the themes of academic development, personal development and professional formation. It provides sound foundations in engineering theory, technical expertise and knowledge of professional practice, while also developing academic literacy, advocacy skills and social awareness so that graduates become lifelong learners and effective citizens in many different capacities. The concept has been strongly endorsed in wide-ranging industry consultations. Interaction between work experience and academic curriculum is very strong, giving the program a depth that no other full-time academic course can match.

Career options

Career options depend on the major chosen.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December.

Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549, overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57, or CAE: 52-57 Eligibility for admission does not guarantee offer of a place.

**Local students**
Entry to individual engineering majors is subject to ATAR requirements.

**International students**
Applicants who successfully complete a recognised pathway program are eligible to apply.

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

**Course duration and attendance**
Full-time students normally complete the program in five years, which includes four years of study plus two periods of engineering internship in the workplace totalling at least 48 weeks. The internship is typically taken in the third or fourth semester and again in the seventh or eighth.

It is possible to complete the program entirely on a part-time basis, with continuous concurrent employment, by enrolling at half the full-time rate, however this is not recommended. Students wishing to make extensive use of part-time attendance are strongly encouraged to negotiate with their employers for at least two full-time semesters of study somewhere through the program.

**Course structure**
A total of 204 credit points is required for graduation, distributed in the following way:
- core program: 48 credit points
- engineering practice program: 12 credit points, plus 48 weeks of approved internship
- fields of practice (including a major capstone project): 120 credit points (credit points may vary depending on major), and
electives (within this component students may undertake a faculty-approved sub-major totalling 24 credit points): 24 credit points (credit points may vary depending on sub-major).

Students in the Civil Engineering major, Structures specialisation are eligible to apply to change majors. Students may choose not to take a major beyond Year 1 depends on which specialisation is chosen.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90011</td>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90010</td>
<td>Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90271</td>
<td>Engineering practice program</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90173</td>
<td>Major choice</td>
<td>120cp</td>
</tr>
<tr>
<td></td>
<td>Total 204cp</td>
<td></td>
</tr>
</tbody>
</table>

**Course program**
Most of the subjects are offered in both Autumn and Spring semesters, sometimes as day classes and sometimes as evening classes. The programs provided below for each major show a suggested sequence for students undertaking the course full time for Autumn commencement. This sequence may be impacted in future semesters by course changes, subject availability, or satisfactory academic progress. Internships may be taken in semesters other than those shown, but this may lengthen the time required to complete the course. The program for students undertaking the Civil Engineering major beyond Year 1 depends on which specialisation is chosen.

**List of majors**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90010</td>
<td>No specified major</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03001</td>
<td>Civil Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03002</td>
<td>Civil and Environmental Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03005</td>
<td>Electrical Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03007</td>
<td>Mechanical Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03012</td>
<td>Mechanical and Mechatronic Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03446</td>
<td>ICT Engineering</td>
<td>120cp</td>
</tr>
<tr>
<td>MAJ03029</td>
<td>Innovation Engineering</td>
<td>120cp</td>
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**Civil Engineering major, Autumn commencing, full time**

**Year 1**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Engineering Practice Preview 1</td>
<td>3cp</td>
</tr>
<tr>
<td></td>
<td>Engineering Computations</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Design Fundamentals</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Mechanics of Solids</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Engineering Experience 1</td>
<td>0cp</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Engineering Economics and Finance</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Soil Behaviour</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Structural Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Construction Materials</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Engineering Practice Review 1</td>
<td>5cp</td>
</tr>
</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Engineering Project Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Concrete Design</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Fluid Mechanics</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Road and Transport Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Engineering Experience 2</td>
<td>0cp</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Engineering Practice Preview 2</td>
<td>3cp</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship and Commercialisation</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Environmental and Sanitation Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Geotechnical Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Engineering Experience 2</td>
<td>0cp</td>
</tr>
</tbody>
</table>

**Year 5**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Engineering Practice Review 2</td>
<td>3cp</td>
</tr>
<tr>
<td></td>
<td>Capstone Project Part A</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Steel and Timber Design</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit points of electives</td>
<td>12cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Hydraulics and Hydrology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Computer Modelling and Design</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Capstone Project Part B</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>
### Civil Engineering major, Construction specialisation, Autumn commencing

#### Year 1

**Autumn semester**
- **68037** Physical Modelling 6cp
- **48310** Introduction to Civil and Environmental Engineering 6cp
- **48230** Engineering Communication 6cp
- **33130** Mathematical Modelling 1 6cp

**Spring semester**
- **48321** Engineering Mechanics 6cp
- **48320** Surveying 6cp
- **33230** Mathematical Modelling 2 6cp
- **60101** Chemistry and Materials Science 6cp

#### Year 2

**Autumn semester**
- **48221** Engineering Computations 6cp
- **48240** Design Fundamentals 6cp
- **48331** Mechanics of Solids 6cp
- **48340** Construction 6cp
- **48121** Engineering Practice Preview 1 3cp

**Spring semester**
- **48110** Engineering Experience 1 0cp

#### Year 3

**Autumn semester**
- **48350** Engineering Economics and Finance 6cp
- **48330** Soil Behaviour 6cp
- **48349** Structural Analysis 6cp
- **48522** Construction Materials 6cp
- **48122** Engineering Practice Review 1 3cp

**Spring semester**
- **48260** Engineering Project Management 6cp
- **48353** Concrete Design 6cp
- **48641** Fluid Mechanics 6cp
- **16265** Construction Technology 2 6cp

#### Year 4

**Autumn semester**
- **48141** Engineering Practice Preview 2 3cp
- **48360** Geotechnical Engineering 6cp
- **16912** Site Management 6cp
- **Select 12 credit points of electives** 12cp

**Spring semester**
- **48130** Engineering Experience 2 0cp

#### Year 5

**Autumn semester**
- **48370** Advanced Engineering Computing 6cp
- **48016** Capstone Project Part A 6cp
- **48366** Steel and Timber Design 6cp
- **48142** Engineering Practice Review 2 3cp
- **Select 6 credit points of electives** 6cp

**Spring semester**
- **48362** Hydraulics and Hydrology 6cp
- **48389** Computer Modelling and Design 6cp
- **48026** Capstone Project Part B 6cp
- **Select 6 credit points of electives** 6cp

### Civil and Environmental Engineering major, Autumn commencing

#### Year 1

**Autumn semester**
- **68037** Physical Modelling 6cp
- **48230** Engineering Communication 6cp
- **48310** Introduction to Civil and Environmental Engineering 6cp
- **33130** Mathematical Modelling 1 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Year 5

Autumn semester
48016 Capstone Project Part A 6cp
48670 Mechanical and Mechatronic Design 6cp
48142 Engineering Practice Review 2 3cp
Select 12 credit points of electives 12cp

Spring semester
48270 Entrepreneurship and Commercialisation 6cp
48026 Capstone Project Part B 6cp
Select 12 credit points of electives 12cp

Levels of award
The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia under the Washington Accord. The degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey. The Diploma in Engineering Practice allows students to accelerate their entry into the engineering profession as a chartered professional engineer by reducing the time required for professional experience after graduation.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10062v4 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice

Award(s): Bachelor of Engineering in (name of Engineering major) Diploma in Engineering Practice [BE DiplEngPrac]
Bachelor of Arts in International Studies [BAI]
CRICOS code: 04394BC
Commonwealth-supported place?: Yes
Load credit points: 252
Course EFTSL: 5.25
Location: City campus

Overview
This combined degree, offered jointly by UTS: Engineering and UTS: International Studies, links the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) with the study of a language and culture other than English. This combined degree offers a shortened version of the Bachelor of Arts International Studies together with a shortened version of the Bachelor of Engineering Diploma in Engineering Practice. Students who choose this course have less opportunity to elect specialist areas of study. On completion, students receive separate testamurs for each degree.

Course aims
The purpose of the program is to develop skills for leadership in the professional practice of engineering in an international setting. It reflects a belief in the international character of engineering, and the conviction that Australian professionals can benefit from the early development of an international perspective and a fluency in cross-cultural interactions.

Career options
Career options depend on the major chosen. Options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Engineering (C10067) (see page 152).
There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.
Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December.
Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Local students
Entry to individual engineering majors is subject to ATAR requirements.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
The course duration is normally six years of full-time study, although it may be possible to complete the degree in less time than this.
The program involves four years of academic work in Australia, one year of academic work overseas and two periods of engineering internship. The periods of engineering internship can be taken in Australia, or one in Australia and one overseas.

Course structure
The course comprises a total of 252 credit points, made up of 156 credit points relating to engineering and 96 credit points relating to international studies. The Bachelor of Arts in International Studies requires students to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program. The engineering component of this degree is made up of subjects selected from the engineering core, the engineering practice program and the engineering fields of practice (majors) subjects. The international studies component is made up of subjects in language and culture, foundations in international studies, the student's chosen international studies major.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
Students undertake a minimum of 48 weeks of engineering internship.
Some students choose to take their first period of engineering internship overseas, during their second or third year of enrolment. Most take this first period in Australia. This course is also available without the Diploma in Engineering Practice. For details, refer to the Bachelor of Engineering Bachelor of Arts in International Studies (C10063) (see page 147).

Course completion requirements
CBK90005 Country major choice 96cp
STM90107 Core subjects (Engineering) 42cp
STM90271 Engineering practice program 12cp
CBK90174 Major choice (Engineering) 102cp
Total 252cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course program

The example program below is for a full-time, Autumn-commencing student with electrical engineering as the engineering major and Germany as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. For further information, please contact the appropriate UTS Student Centre.

List of majors

CBK90053 No specified major 102cp
MAJ03013 Civil Engineering 102cp
MAJ03014 Civil and Environmental Engineering 102cp
MAJ03017 Electrical Engineering 102cp
MAJ03019 Mechanical Engineering 102cp
MAJ03448 ICT Engineering 102cp

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
68037 Physical Modelling 6cp
48510 Introduction to Electrical Engineering 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48441 Introductory Digital Systems 6cp
48521 Fundamentals of Electrical Engineering 6cp
48520 Electronics and Circuits 6cp

Year 2

Autumn semester
976001 Foundations in International Studies 8cp
48121 Engineering Practice Preview 1 3cp
976011 German Language and Culture 1 8cp
48530 Circuit Analysis 6cp

Spring semester
48110 Engineering Experience 1 0cp
976002 German Language and Culture 2 8cp

Year 3

Autumn semester
976003 German Language and Culture 3 8cp
48122 Engineering Practice Review 1 3cp
48430 Embedded C 6cp
48531 Electromechanical Automation 6cp

Spring semester
68038 Advanced Mathematics and Physics 6cp
48520 Design Fundamentals 6cp
976004 German Language and Culture 4 8cp
976421 Contemporary Germany 8cp

Year 4

Autumn semester
977420 In-country Study 1: Germany 24cp

Spring semester
978420 In-country Study 2: Germany 24cp

Year 5

Autumn semester
48260 Engineering Project Management 6cp
48414 Engineering Practice Preview 2 3cp
48250 Engineering Economics and Finance 6cp

Select 12 credit points from the following options: 12cp
48560 Introductory Control in CBK90005 6cp
48570 Data Acquisition and Distribution 6cp
48451 Advanced Digital Systems 6cp
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp

Spring semester
48140 Engineering Practice 2 0cp
48142 Engineering Practice Review 2 3cp
48540 Signals and Systems 6cp
48016 Capstone Project Part A 6cp

Select 12 credit points from the following options: 12cp
48580 Advanced Control 6cp
48581 Digital Electronics 6cp
48434 Embedded Software 6cp
48561 Power Electronics and Drives 6cp
48582 Power Systems Analysis and Design 6cp

Spring semester
48026 Capstone Project Part B 6cp

Select 12 credit points from the following options: 12cp
5126921 Advanced Robotics 6cp
5126951 Analog Electronics 6cp
5126950 Real-time Operating Systems 6cp
5126950 Renewable Energy Systems 6cp
5126953 Power Systems Operation and Protection 6cp

Levels of award

The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

Transfer between UTS courses

It is not possible to complete either degree at an intermediate point. However, a student unable for any reason to continue with international studies could transfer to the Bachelor of Engineering Diploma in Engineering Practice.

Professional recognition

The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey).

Other information

Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10063v5 Bachelor of Engineering Bachelor of Arts in International Studies

Award(s): Bachelor of Engineering in [name of Engineering major] (BE)
Bachelor of Arts in International Studies (BA)

UAC code: 609032
CRICOS code: 052693B

Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview

This combined degree, offered jointly by UTS: Engineering and UTS: International Studies, links the Bachelor of Engineering (C10067) (see page 152) with the study of a language and culture other than English. This combined degree offers a shortened version of the Bachelor of Arts International Studies together with a shortened version of the Bachelor of Engineering. Students who choose this course have less opportunity to elect specialist areas of study. On completion, students receive separate testamurs for each degree.

Course aims

The purpose of the course is to develop skills for leadership in the professional practice of engineering in an international setting. It reflects a belief in the international character of engineering and the conviction that Australian professionals can benefit from the early development of an international perspective and a fluency in cross-cultural interactions.
Career options
Career options depend on the major chosen. Options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Engineering (C10067) (see page 152).

There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December. Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

Local students
Entry to individual engineering majors is subject to ATAR requirements.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
The course duration is normally five years of full-time study, although it may be possible to complete the degree in less time than this. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
The program comprises a total of 240 credit points, made up of 144 credit points relating to engineering and 96 credit points relating to international studies. The Bachelor of Arts in International Studies requires students to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program. The engineering component is made up of subjects selected from the engineering core and the engineering fields of practice (majors). The international studies component is made up of subjects in language and culture, foundations in international studies, and contemporary society, and study undertaken in the country of the student's chosen international studies major.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
Students graduating without the Diploma in Engineering Practice are required to obtain the equivalent of at least 12 weeks' exposure to professional engineering practice, preferably outside the university environment. For further details, refer to 48100 Professional Practice.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Unit</th>
<th>CPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>STM90107</td>
<td>Core subjects (Engineering)</td>
<td>42cp</td>
</tr>
<tr>
<td>CBK90174</td>
<td>Major choice (Engineering)</td>
<td>102cp</td>
</tr>
<tr>
<td>48100</td>
<td>Professional Practice (BE)</td>
<td>0cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
The program for this course is the same as that for the Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice (C10062) (see page 146), but without the two semester-long internships and associate Diploma in Engineering Practice subjects.

Levels of award
The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole.

Transfer between UTS courses
It is not possible to complete either degree at an intermediate point. However, a student unable for any reason to continue with international studies could transfer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140).

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey).

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10065v8 Bachelor of Engineering Bachelor of Business
Award(s): Bachelor of Engineering in (name of Engineering major) (BE) Bachelor of Business (BBus)
UAC code: 693350
CRICOS code: 030574B
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
This combined degree is offered jointly by UTS: Engineering and UTS: Business. It allows students to complete the core and major components of both the engineering and business degrees, producing engineers with skills in commercialisation of technology innovation and business graduates with professional-level competency in technology use.

Students learn how engineering and business fit together, how to manage technology and innovation, and how to commercialise engineering innovations. For graduates choosing to practise as engineers, the business knowledge gained in this course will prove invaluable in providing a sound foundation for entrepreneurial initiatives and the commercialisation of engineering innovations.

This combined degree can be completed in less time than would be required to complete the two degrees separately.

Career options
Career options include working in a business career applying advanced technology in commercial settings or practising as an engineer where business knowledge helps to ensure success in commercialisation of engineering innovations. The course provides excellent training for senior management roles.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December. Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL paper based: 550 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Local students
To be admitted to this combined degree, applicants must achieve an ATAR rank no lower than five points below the rank for the Bachelor of Business single degree.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The program may be completed on a five-year, full-time or equivalent part-time basis.

Course structure
The program comprises a total of 240 credit points, made up of 150 credit points relating to the Bachelor of Engineering and 90 credit points relating to the Bachelor of Business. Students wishing to graduate from the engineering component of the combined degree prior to completion of the business component must have completed the business core subjects (STM90108) and at least 30 credit points from their chosen business major (CBK90169).

Industrial training/professional practice
Students graduating with a Bachelor of Engineering without the Diploma in Engineering Practice are required to obtain the equivalent of at least 12 weeks exposure to professional engineering practice. For further details, refer to 48100 Professional Practice.

Course completion requirements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90272</td>
<td>Core subjects (Engineering)</td>
<td>36cp</td>
</tr>
<tr>
<td>STM90108</td>
<td>Core subjects (Business)</td>
<td>42cp</td>
</tr>
<tr>
<td>CBK90169</td>
<td>Major choice (Business)</td>
<td>48cp</td>
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<tr>
<td>CBK90176</td>
<td>Major choice (Engineering)</td>
<td>114cp</td>
</tr>
<tr>
<td>48100</td>
<td>Professional Practice (BE)</td>
<td>0cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
A typical program for a student attending full time would be that shown for the Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice (C10068) (see page 157), but with semesters moved forward to replace the semesters in which students in the Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice undertake the Diploma in Engineering Practice.

Levels of award
The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole.

Transfer between UTS courses
Students wishing to transfer from the combined degree to the Bachelor of Business (C10026) (see page 131) single degree are required to apply for admission through UAC in the non-current school leaver category.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Refer to the Bachelor of Business for details on professional recognition.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10066v4 Bachelor of Engineering Science
Award(s): Bachelor of Engineering Science in [name of Engineering major] [BEngSc]
CRICOS code: 03390D
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it. This course is also offered offshore. It is available in Hong Kong. The language of tuition is English.
Local students are advised to refer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140), which includes industry experience and provides a comprehensive preparation for a career in the engineering profession.

Overview
This course is an engineering technologist-level program which is similar in nature to the Bachelor of Engineering (C10067) (see page 152) but does not provide full professional engineering status.
This course provides students with the skills required at an engineering technologist level - and hence the ability to work with professional engineers - without developing full professional engineering competencies.

Career options
Career options include positions in engineering teams across the full spectrum of engineering activities. Specific career options depend on the major chosen.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course can be completed in three years of full-time study.
Course structure
A total of 144 credit points is required for graduation, distributed in the following way:
- core program (including the Project BEngSc): 42 credit points
- fields of practice (including a major BEngSc project): 84 credit points, and
- electives: 18 credit points.

The degree may be taken with a designated major which students usually select at entry. Opportunities exist in later years for students to apply to change majors. Students may choose not to take a major, instead taking a general program comprising subjects from different areas of engineering as approved by the director of UTS: Engineering Undergraduate Programs.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Component</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>STM90356</td>
<td>Core subjects</td>
<td>36cp</td>
</tr>
<tr>
<td>CBK90228</td>
<td>Electives</td>
<td>18cp</td>
</tr>
<tr>
<td>48001</td>
<td>Project BEngSc</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90178</td>
<td>Major choice</td>
<td>84cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
</tbody>
</table>

Course program
Most subjects are offered in Spring and Autumn semesters, sometimes as day classes and sometimes as evening classes. The programs shown below for each major show a suggested sequence for students undertaking the course full time. The subjects taken in any one semester are determined by what is on offer and any subject requisites.

List of majors
- MAJ03134 Civil Engineering: 84cp
- MAJ03139 Mechanical Engineering: 84cp
- MAJ03412 Civil and Environmental Engineering: 84cp
- MAJ03413 Electrical Engineering: 84cp
- MAJ03024 Innovation Engineering: 84cp
- MAJ03447 ICT Engineering: 84cp
- STM90357 No specified major: 84cp

Civil Engineering major

Year 1
- Autumn semester
  - 48230 Engineering Communication: 6cp
  - 33130 Mathematical Modelling 1: 6cp
  - 68037 Physical Modelling: 6cp
  - 48310 Introduction to Civil and Environmental Engineering: 6cp
- Spring semester
  - 33230 Mathematical Modelling 2: 6cp
  - 60101 Chemistry and Materials Science: 6cp
  - 48321 Engineering Mechanics: 6cp
  - 48320 Surveying: 6cp

Year 2
- Autumn semester
  - 48221 Engineering Computations: 6cp
  - 48240 Design Fundamentals: 6cp
  - 48331 Mechanics of Solids: 6cp
  - 48641 Fluid Mechanics: 6cp
- Spring semester
  - 48250 Engineering Economics and Finance: 6cp
  - 48340 Construction: 6cp
  - 68038 Advanced Mathematics and Physics: 6cp
  - Select 6 credit points of electives: 6cp

Year 3
- Autumn semester
  - 48330 Soil Behaviour: 6cp
  - 48349 Structural Analysis: 6cp
  - 48352 Construction Materials: 6cp
  - 48210 Interrogating Technology: Sustainability, Environment and Social Change: 6cp
- Spring semester
  - 48001 Project BEngSc: 6cp
  - 48533 Concrete Design: 6cp
  - Select 12 credit points of electives: 12cp

Civil and Environmental Engineering major

Year 1
- Autumn semester
  - 48230 Engineering Communication: 6cp
  - 48310 Introduction to Civil and Environmental Engineering: 6cp
  - 33130 Mathematical Modelling 1: 6cp
  - 68037 Physical Modelling: 6cp
- Spring semester
  - 65111 Chemistry 1: 6cp
  - 33230 Mathematical Modelling 2: 6cp
  - 48321 Engineering Mechanics: 6cp
  - 48320 Surveying: 6cp

Year 2
- Autumn semester
  - 48221 Engineering Computations: 6cp
  - 48240 Design Fundamentals: 6cp
  - 48331 Mechanics of Solids: 6cp
  - 48641 Fluid Mechanics: 6cp
- Spring semester
  - 48250 Engineering Economics and Finance: 6cp
  - 48340 Construction: 6cp
  - 48821 Ecological Engineering: 6cp
  - 48840 Water Supply and Wastewater Engineering: 6cp

Year 3
- Autumn semester
  - 48210 Interrogating Technology: Sustainability, Environment and Social Change: 6cp
  - 48330 Soil Behaviour: 6cp
  - 48352 Construction Materials: 6cp
  - 48850 Environmental Planning and Law: 6cp
- Spring semester
  - 48001 Project BEngSc: 6cp
  - Select 18 credit points of electives: 18cp

Electrical Engineering major

Year 1
- Autumn semester
  - 33130 Mathematical Modelling 1: 6cp
  - 48230 Engineering Communication: 6cp
  - 48510 Introduction to Electrical Engineering: 6cp
  - 68037 Physical Modelling: 6cp
- Spring semester
  - 33230 Mathematical Modelling 2: 6cp
  - 48441 Introductory Digital Systems: 6cp
  - 48530 Circuit Analysis: 6cp
  - Select 6 credit points of electives: 6cp

Year 2
- Autumn semester
  - 48240 Design Fundamentals: 6cp
  - 48530 Circuit Analysis: 6cp
  - 48540 Signals and Systems: 6cp
  - 68038 Advanced Mathematics and Physics: 6cp
  - Select 6 credit points of electives: 6cp

Year 3
- Autumn semester
  - 48572 Power Circuit Theory: 6cp
  - 48451 Advanced Digital Systems: 6cp
  - 48570 Data Acquisition and Distribution: 6cp
  - Select 6 credit points of electives: 6cp
- Spring semester
  - 48001 Project BEngSc: 6cp
  - 48571 Electrical Machines: 6cp
  - 48560 Introductory Control: 6cp
  - Select 6 credit points of electives: 6cp
ICTE major, Computer Systems Engineering sub-major

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
68037 Physical Modelling 6cp
48410 Introduction to ICT Engineering 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48023 Programming Fundamentals 6cp
48510 Introduction to Electrical Engineering 6cp
48720 Network Fundamentals 6cp

Year 2

Autumn semester
48240 Design Fundamentals 6cp
48441 Introductory Digital Systems 6cp
48541 Signal Theory 6cp
Select 6 credit points from the following options: 18cp

CBK90366 ICT choice

Spring semester
48250 Engineering Economics and Finance 6cp
48430 Embedded C 6cp
48451 Advanced Digital Systems 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
48434 Embedded Software 6cp
48570 Data Acquisition and Distribution 6cp
Select 6 credit points of electives 6cp

ICTE major, Software Engineering sub-major

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
48510 Introduction to Electrical Engineering 6cp
68037 Physical Modelling 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48023 Programming Fundamentals 6cp
48510 Introduction to Electrical Engineering 6cp
48720 Network Fundamentals 6cp

Year 2

Autumn semester
48024 Applications Programming 6cp
48441 Introductory Digital Systems 6cp
48451 Signal Theory 6cp
Select 6 credit points from the following options: 18cp

CBK90366 ICT choice

Spring semester
48250 Engineering Economics and Finance 6cp
48430 Embedded C 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
48434 Embedded Software 6cp
48440 Software Engineering Practice 6cp
Select 6 credit points of electives 6cp

Spring semester
48001 Project BEngSc 6cp
48433 Software Architecture 6cp
48450 Real-time Operating Systems 6cp
Select 6 credit points of options 6cp

ICTE major, Telecommunications Engineering sub-major

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
68037 Physical Modelling 6cp
48410 Introduction to ICT Engineering 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48023 Programming Fundamentals 6cp
48510 Introduction to Electrical Engineering 6cp
48720 Network Fundamentals 6cp

Year 2

Autumn semester
48240 Design Fundamentals 6cp
48441 Introductory Digital Systems 6cp
48541 Signal Theory 6cp
48740 Communications Networks 6cp
Select 6 credit points of electives 6cp

Spring semester
48250 Engineering Economics and Finance 6cp
48750 Network Planning and Management 6cp
48770 Continuous Communications 6cp
Select 6 credit points from the following options: 6cp

CBK90366 ICT choice 18cp

Year 3

Autumn semester
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
48730 Authentication and System Security 6cp
48780 Mobile Communications 6cp
Select 6 credit points from the following options: 6cp

CBK90366 ICT choice 18cp

Spring semester
48001 Project BEngSc 6cp
48771 Discrete Communications 6cp
Select 12 credit points of electives 12cp

Innovation major example with Electrical Engineering specialisation

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
48510 Introduction to Electrical Engineering 6cp
68037 Physical Modelling 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48080 Introduction to Innovation 6cp
48521 Fundamentals of Electrical Engineering 6cp
Select 6 credit points from the following options: 6cp

48221 Engineering Computations 6cp
48023 Programming Fundamentals 6cp

Year 2

Autumn semester
48520 Electronics and Circuits 6cp
48441 Introductory Digital Systems 6cp
48240 Design Fundamentals 6cp
48430 Embedded C 6cp

Select 6 credit points of electives 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Spring semester
48250 Engineering Economics and Finance 6cp
48530 Circuit Analysis 6cp
Select 6 credit points from the following options:
CBK90471 Innovation choice 12cp
21227 Innovation and Entrepreneurship 6cp
21511 Global Operations and Supply Chain Management 6cp
22107 Accounting for Business Decisions A 6cp
24108 Marketing Foundations 6cp
25300 Fundamentals of Business Finance 6cp
79006 Intellectual Property Commercialisation 6cp
Select 6 credit points of electives 6cp

Year 3
Autumn semester
48540 Signals and Systems 6cp
68038 Advanced Mathematics and Physics 6cp
Select 6 credit points from the following options:
CBK90471 Innovation choice 12cp
21227 Innovation and Entrepreneurship 6cp
21511 Global Operations and Supply Chain Management 6cp
22107 Accounting for Business Decisions A 6cp
24108 Marketing Foundations 6cp
25300 Fundamentals of Business Finance 6cp
79006 Intellectual Property Commercialisation 6cp
Select 6 credit points of electives 6cp

Spring semester
48001 Project BEngSc 6cp
48560 Introductory Control 6cp
48570 Data Acquisition and Distribution 6cp
Select 6 credit points of electives 6cp

Mechanical Engineering major
Year 1
Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
68037 Physical Modelling 6cp
Spring semester
33230 Mathematical Modelling 2 6cp
48221 Engineering Computations 6cp
48620 Fundamentals of Mechanical Engineering 6cp
60101 Chemistry and Materials Science 6cp
Year 2
Autumn semester
48240 Design Fundamentals 6cp
48621 Manufacturing Engineering 6cp
48531 Mechanics of Solids 6cp
48510 Introduction to Electrical Engineering 6cp
Spring semester
48250 Engineering Economics and Finance 6cp
48600 Mechanical Design 1 6cp
48641 Fluid Mechanics 6cp
48640 Machine Dynamics 6cp
Year 3
Autumn semester
48642 Strength of Engineering Materials 6cp
48651 Thermodynamics 6cp
48660 Dynamics and Control 6cp
Select 6 credit points of electives 6cp
Spring semester
48001 Project BEngSc 6cp
48650 Mechanical Design 2 6cp
Select 12 credit points of electives 12cp

Transfer between UTS courses
Students enrolled in the Bachelor of Engineering Science may (dependent upon performance and admission requirements) be allowed to transfer to the Bachelor of Engineering (C10067) (see page 152). This involves completion of the remaining Bachelor of Engineering subjects. The subject 48001 Project BEngSc is not credited from this course to any Bachelor of Engineering degree.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10067v5 Bachelor of Engineering
Award(s): Bachelor of Engineering in [name of Engineering major] [BE]
UAC code: 603006 (Civil and Environmental Engineering), 603016 (Civil Engineering), 603019 (Civil Engineering [Structures]), 603036 (Electrical Engineering), 603056 (Mechanical Engineering), 603061 (ICT Engineering), 603096 (Civil Engineering [Construction]), 603106 (General degree, no major), 603116 (Mechanical and Mechatronic Engineering), 603126 (Innovation Engineering), 603131 (Biomedical Engineering)
CRICOS code: 009478M
Commonwealth-supported place?: Yes
Load credit points: 192
Course EFTSL: 4
Location: City campus

Note(s)
This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it. Local students are advised to refer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140), which includes industry experience and provides a comprehensive preparation for a career in the engineering profession.

Overview
This course is identical to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) except there is no Diploma in Engineering Practice requirement. This program is a comprehensive preparation for careers in the professional practice of engineering. Students learn to deal with complex systems and manage large-scale projects using the most appropriate emerging technologies.

Career options
Career options depend on the major chosen.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0, or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course is offered on a four-year, full-time basis.
Course structure
A total of 192 credit points is required for graduation, distributed in the following way:
- core program: 48 credit points
- choice of major: 120 credit points
- electives: 24 credit points.

Industrial training/professional practice
Students graduating with a Bachelor of Engineering without the Diploma in Engineering Practice are required to obtain the equivalent of at least 12 weeks exposure to professional engineering practice, preferably outside the university environment. For further details, refer to 48100 Professional Practice.

Course completion requirements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tr>
<td>CBK90011</td>
<td>Electives</td>
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<tr>
<td>STM90010</td>
<td>Core subjects</td>
<td>48cp</td>
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<tr>
<td>CBK90173</td>
<td>Major choice</td>
<td>120cp</td>
</tr>
<tr>
<td>48100</td>
<td>Professional Practice (BE)</td>
<td>0cp</td>
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</tbody>
</table>

Total: 192cp

Course program
Most of the subjects are offered in both Autumn and Spring semesters, sometimes as day classes and sometimes as evening classes. The programs provided below for each major show a suggested sequence for students commencing in Autumn semester undertaking the course full-time. The program for students undertaking the Civil Engineering major beyond Year 1 depends on which specialisation is chosen.

Civil Engineering major, Autumn commencing

Year 1
- Autumn semester
  - 68037 Physical Modelling 6cp
  - 48310 Introduction to Civil and Environmental Engineering 6cp
  - 48230 Engineering Communication 6cp
  - 33130 Mathematical Modelling I 6cp
- Spring semester
  - 48321 Engineering Mechanics 6cp
  - 48320 Surveying 6cp
  - 33230 Mathematical Modelling II 6cp
  - 60101 Chemistry and Materials Science 6cp

Year 2
- Autumn semester
  - 48221 Engineering Computations 6cp
  - 48240 Design Fundamentals 6cp
  - 48331 Mechanics of Solids 6cp
  - 48340 Construction 6cp
- Spring semester
  - 48250 Engineering Economics and Finance 6cp
  - 48330 Soil Behaviour 6cp
  - 48352 Construction Materials 6cp
  - 48349 Structural Analysis 6cp

Year 3
- Autumn semester
  - 48260 Engineering Project Management 6cp
  - 48641 Fluid Mechanics 6cp
  - 48353 Concrete Design 6cp
  - 16265 Construction Technology II 6cp
- Spring semester
  - 48360 Geotechnical Engineering 6cp
  - 16912 Site Management 6cp
  - Select 12 credit points of electives 12cp

Year 4
- Autumn semester
  - 48016 Capstone Project Part A 6cp
  - 48362 Hydraulics and Hydrology 6cp
  - 48026 Capstone Project Part II 6cp
- Spring semester
  - 48270 Entrepreneurship and Commercialisation 6cp
  - 48026 Capstone Project Part B 6cp
  - Select 6 credit points from the following options: 6cp

Year 5
- Spring semester
  - 48270 Entrepreneurship and Commercialisation 6cp
  - 48026 Capstone Project Part B 6cp
  - Select 6 credit points from the following options: 6cp

Select 6 credit points of electives 6cp
Civil Engineering major, Structures specialisation,  
Autumn commencing

Year 1

Autumn semester
68037 Physical Modelling 6cp
48310 Introduction to Civil and Environmental Engineering 6cp
48230 Engineering Communication 6cp
33130 Mathematical Modelling 1 6cp

Spring semester
48321 Engineering Mechanics 6cp
48320 Surveying 6cp
33230 Mathematical Modelling 2 6cp
60101 Chemistry and Materials Science 6cp

Year 2

Autumn semester
48221 Engineering Computations 6cp
48240 Design Fundamentals 6cp
48331 Mechanics of Solids 6cp
48340 Construction 6cp

Spring semester
48250 Engineering Economics and Finance 6cp
48330 Soil Behaviour 6cp
48362 Hydraulics and Hydrology 6cp
48342 Structural Behaviour and Design 6cp

Year 3

Autumn semester
48260 Engineering Project Management 6cp
48331 Mechanics of Solids 6cp
48850 Environmental Planning and Law 6cp
Select 6 credit points of electives 6cp

Spring semester
48270 Entrepreneurship and Commercialisation 6cp
48330 Soil Behaviour 6cp
48362 Hydraulics and Hydrology 6cp
48342 Structural Behaviour and Design 6cp

Electrical Engineering major, Autumn commencing

Year 1

Autumn semester
33130 Mathematical Modelling 1 6cp
48230 Engineering Communication 6cp
68037 Physical Modelling 6cp
48510 Introduction to Electrical Engineering 6cp

Spring semester
33230 Mathematical Modelling 2 6cp
48441 Introductory Digital Systems 6cp
48530 Circuit Analysis 6cp
Select 6 credit points of electives 6cp

Year 2

Autumn semester
48240 Design Fundamentals 6cp
48430 Embedded C 6cp
68038 Advanced Mathematics and Physics 6cp
48530 Circuit Analysis 6cp

Spring semester
48250 Engineering Economics and Finance 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
48260 Engineering Project Management 6cp
Select 12 credit points from the following options: 12cp
48560 Introductory Control 6cp
48570 Data Acquisition and Distribution 6cp
48451 Advanced Digital Systems 6cp
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp
Select 6 credit points of electives 6cp
Spring semester
48270 Entrepreneurship and Commercialisation 6cp
Select one subject from the following:  6cp
48380 Advanced Control 6cp
48381 Digital Electronics 6cp
48434 Embedded Software 6cp
48561 Power Electronics and Drives 6cp
48582 Power Systems Analysis and Design 6cp
Select one subject from the following:  6cp
48451 Advanced Digital Systems 6cp
48560 Introductory Control 6cp
48570 Data Acquisition and Distribution 6cp
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp
Select 6 credit points of electives 6cp

Year 4
Autumn semester
48016 Capstone Project Part A  6cp
48100 Professional Practice (BE)  0cp
Select one subject from the following:  6cp
49274 Advanced Robotics 6cp
48351 Analog Electronics 6cp
48450 Real-time Operating Systems 6cp
48550 Renewable Energy Systems 6cp
48583 Power Systems Operation and Protection 6cp
Select two subjects from the following:  12cp
48580 Advanced Control 6cp
48581 Digital Electronics 6cp
48434 Embedded Software 6cp
48561 Power Electronics and Drives 6cp
48582 Power Systems Analysis and Design 6cp
Select 6 credit points of electives 6cp

Innovation major, Electrical Engineering specialisation, Autumn commencing

Year 1
Autumn semester
33130 Mathematical Modelling 1  6cp
48230 Engineering Communication 6cp
48410 Introduction to ICT Engineering 6cp
48037 Physical Modelling 6cp
Spring semester
33230 Mathematical Modelling 2  6cp
48441 Introductory Digital Systems 6cp
48080 Introduction to Innovation 6cp
48521 Fundamentals of Electrical Engineering 6cp

Year 2
Autumn semester
48240 Design Fundamentals 6cp
48520 Electronics and Circuits 6cp
48430 Embedded C 6cp
Select 6 credit points from the following options:  6cp
CBK90471 Innovation choice 12cp
21227 Innovation and Entrepreneurship 6cp
21511 Global Operations and Supply Chain Management 6cp
22107 Accounting for Business Decisions A 6cp
24106 Marketing Foundations 6cp
25300 Fundamentals of Business Finance 6cp
79006 Intellectual Property Commercialisation 6cp

Spring semester
48250 Engineering Economics and Finance 6cp
48530 Circuit Analysis 6cp
48038 Advanced Mathematics and Physics 6cp
Select 6 credit points from the following options:  6cp
CBK90471 Innovation choice 12cp
21227 Innovation and Entrepreneurship 6cp
21511 Global Operations and Supply Chain Management 6cp
22107 Accounting for Business Decisions A 6cp
24106 Marketing Foundations 6cp
25300 Fundamentals of Business Finance 6cp
79006 Intellectual Property Commercialisation 6cp

Year 3
Autumn semester
48260 Engineering Project Management 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
Select 6 credit points of electives 6cp

Spring semester
48270 Entrepreneurship and Commercialisation 6cp
48081 Innovation Processes 6cp
48570 Data Acquisition and Distribution 6cp
Select 6 credit points of electives 6cp

ICTe major, Computer Systems sub-major, Autumn commencing

Year 1
Autumn semester
33130 Mathematical Modelling 1  6cp
48230 Engineering Communication 6cp
68037 Physical Modelling 6cp
48410 Introduction to ICT Engineering 6cp
Spring semester
33230 Mathematical Modelling 2  6cp
48023 Programming Fundamentals 6cp
48510 Introduction to Electrical Engineering 6cp
48720 Network Fundamentals 6cp

Year 2
Autumn semester
48240 Design Fundamentals 6cp
48441 Introductory Digital Systems 6cp
48520 Electronics and Circuits 6cp
48541 Signal Theory 6cp
Spring semester
48250 Engineering Economics and Finance 6cp
48430 Embedded C 6cp
48451 Advanced Digital Systems 6cp
Select 6 credit points from the following options:  6cp
CBK90366 ICT choice 18cp

Year 3
Autumn semester
48260 Engineering Project Management 6cp
48434 Embedded Software 6cp
48570 Data Acquisition and Distribution 6cp
Select 6 credit points from the following options:  6cp
CBK90366 ICT choice 18cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Year 1
**Autumn semester**
- 33130 Mathematical Modelling 1  
- 48230 Engineering Communication  
- 68037 Physical Modelling  
- 48410 Introduction to ICT Engineering  

**Spring semester**
- 33230 Mathematical Modelling 2  
- 48023 Programming Fundamentals  
- 48541 Signal Theory  
- 48720 Network Fundamentals  

### Year 2
**Autumn semester**
- 48024 Applications Programming  
- 48441 Introductory Digital Systems  
- 48240 Design Fundamentals  
- 48541 Signal Theory  

**Spring semester**
- 48250 Engineering Economics and Finance  
- 48440 Software Engineering Practice  
- Select 6 credit points from the following options:  
  - 6cp  
  - CBK90366 ICT choice 18cp  

### Year 3
**Autumn semester**
- 48260 Engineering Project Management  
- 48750 Network Planning and Management  
- 48571 Discrete Communications  

**Spring semester**
- 48780 Mobile Communications  
- 48270 Entrepreneurship and Commercialisation  
- Select 6 credit points of electives  

### Year 4
**Autumn semester**
- 48210 Interrogating Technology: Sustainability, Environment and Social Change  
- 48471 ICT Analysis  
- 48016 Capstone Project Part A  
- 48100 Professional Practice (BE)  

**Spring semester**
- 48481 ICT Design  
- 48026 Capstone Project Part B  
- Select 12 credit points of electives  

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**ICTE major, Software Engineering sub-major, Autumn commencing**

### Year 1
**Autumn semester**
- 33130 Mathematical Modelling 1  
- 48230 Engineering Communication  
- 68037 Physical Modelling  
- 48410 Introduction to ICT Engineering  

**Spring semester**
- 33230 Mathematical Modelling 2  
- 48023 Programming Fundamentals  
- 48510 Introduction to Electrical Engineering  
- 48720 Network Fundamentals  

### Year 2
**Autumn semester**
- 48024 Applications Programming  
- 48441 Introductory Digital Systems  
- 48240 Design Fundamentals  
- 48541 Signal Theory  

**Spring semester**
- 48250 Engineering Economics and Finance  
- 48440 Software Engineering Practice  
- Select 6 credit points from the following options:  
  - 6cp  
  - CBK90366 ICT choice 18cp  

### Year 3
**Autumn semester**
- 48260 Engineering Project Management  
- 48434 Embedded Software  
- 48433 Software Architecture  

**Spring semester**
- 48270 Entrepreneurship and Commercialisation  
- 48450 Real-time Operating Systems  
- Select 6 credit points from the following options:  
  - 6cp  
  - CBK90366 ICT choice 18cp  

### Year 4
**Autumn semester**
- 48210 Interrogating Technology: Sustainability, Environment and Social Change  
- 48471 ICT Analysis  
- 48016 Capstone Project Part A  
- 48100 Professional Practice (BE)  

**Spring semester**
- 48481 ICT Design  
- 48026 Capstone Project Part B  
- Select 12 credit points of electives  

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**Mechanical and Mechatronic Engineering major, Autumn commencing**

### Year 1
**Autumn semester**
- 33130 Mathematical Modelling 1  
- 48230 Engineering Communication  
- 48610 Introduction to Mechanical and Mechatronic Engineering  
- 68037 Physical Modelling  

**Spring semester**
- 33230 Mathematical Modelling 2  
- 48510 Introduction to Electrical Engineering  
- 48620 Fundamentals of Mechanical Engineering  
- 48621 Manufacturing Engineering  

---

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Year 3
#### Autumn semester
- 48250 Engineering Economics and Finance 6cp
- 48622 Mechatronics 1 6cp
- 48660 Dynamics and Control 6cp
- 48642 Strength of Engineering Materials 6cp

#### Spring semester
- 48260 Engineering Project Management 6cp
- 48623 Mechatronics 2 6cp
- 48651 Thermodynamics 6cp
- 48650 Mechanical Design 2 6cp

### Year 4
#### Autumn semester
- 48670 Mechanical and Mechatronic Design 6cp
- 48016 Capstone Project Part A 6cp
- 48100 Professional Practice (BE) 6cp
- Select 12 credit points of electives 12cp

#### Spring semester
- 48026 Capstone Project Part B 6cp
- 48270 Entrepreneurship and Commercialisation 6cp
- Select 12 credit points of electives 12cp

### Mechanical Engineering major, Autumn commencing

#### Year 1
#### Autumn semester
- 33130 Mathematical Modelling 1 6cp
- 48230 Engineering Communication 6cp
- 48610 Introduction to Mechanical and Mechatronic Engineering 6cp
- 68037 Physical Modelling 6cp

#### Spring semester
- 33230 Mathematical Modelling 2 6cp
- 48510 Introduction to Electrical Engineering 6cp
- 48620 Fundamentals of Mechanical Engineering 6cp
- 60101 Chemistry and Materials Science 6cp

#### Year 2
#### Autumn semester
- 48240 Design Fundamentals 6cp
- 48331 Mechanics of Solids 6cp
- 48221 Engineering Computations 6cp
- 48621 Manufacturing Engineering 6cp

#### Spring semester
- 48600 Mechanical Design 1 6cp
- 48640 Machine Dynamics 6cp
- 48641 Fluid Mechanics 6cp
- 48642 Strength of Engineering Materials 6cp

#### Year 3
#### Autumn semester
- 48650 Mechanical Design 2 6cp
- 48651 Thermodynamics 6cp
- 48660 Dynamics and Control 6cp
- 48250 Engineering Economics and Finance 6cp

#### Spring semester
- 48260 Engineering Project Management 6cp
- 48601 Mechanical Vibration and Measurement 6cp
- 48661 Heat Transfer 6cp
- 48663 Advanced Manufacturing 6cp

### Year 4
#### Autumn semester
- 48016 Capstone Project Part A 6cp
- 48670 Mechanical and Mechatronic Design 6cp
- 48100 Professional Practice (BE) 6cp
- Select 12 credit points of electives 12cp

#### Spring semester
- 48026 Capstone Project Part B 6cp
- 48270 Entrepreneurship and Commercialisation 6cp
- Select 12 credit points of electives 12cp

### Levels of award
The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole.

### Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey).

### Other information
Further information is available from:
- UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

### C10068v7 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice

Award(s): Bachelor of Engineering in [name of Engineering major] Diploma in Engineering Practice (BE DipEngPrac)
Bachelors of Business (BBus)

CRICOS code: 043190M
Commonwealth-supported place?: Yes
Load credit points: 252
Course EFTSL: 5.25
Location: City campus

### Note(s)
This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it.

### Overview
This combined degree provides students with the opportunity to complete the core and major components of both the engineering and business degrees. This course is essentially the same as the Bachelor of Engineering Bachelor of Business (C10065) (see page 148) combined degree except for the additional requirement of two internships and the completion of the engineering practice program. The engineering practice program is integrated throughout the course.

For graduates choosing to practise as engineers, the business knowledge is invaluable in providing a sound foundation for entrepreneurial initiatives and the commercialisation of engineering innovations.

This combined degree can be completed in less time than would be required to complete the two degrees separately.

### Career options
Career options include a business career applying advanced technology in commercial settings or practice as an engineer where business knowledge helps to ensure success in commercialisation of engineering innovations. The course provides excellent training for senior management roles.

### Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**Local students**
Entry to individual engineering majors is subject to ATAR requirements.

**International students**
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**
Mathematics Extension 1; Physics; and English Standard.
English Advanced is recommended.

**Course duration and attendance**
The course duration is six years of full-time study.

**Course structure**
The program comprises a total of 252 credit points, made up of 162 credit points relating to the Bachelor of Engineering Diploma in Engineering Practice and 90 credit points relating to the Bachelor of Business.

The engineering component of this course is made up of subjects selected from the engineering core, the engineering practice program and the engineering fields of practice (majors).

The business component is made up of core business subjects and a business major.

**Industrial training/professional practice**
The Diploma in Engineering Practice requires the completion of two six-month internships and the engineering practice program. This course is also available without the Diploma in Engineering Practice. For details, refer to the Bachelor of Engineering Bachelor of Business (CI0065) (see page 148).

**Course completion requirements**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90169</td>
<td>Major choice (Business)</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90272</td>
<td>Core subjects (Engineering)</td>
<td>36cp</td>
</tr>
<tr>
<td>STM90108</td>
<td>Core subjects (Business)</td>
<td>42cp</td>
</tr>
<tr>
<td>STM90271</td>
<td>Engineering practice program</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90176</td>
<td>Major choice (Engineering)</td>
<td>114cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>252cp</td>
</tr>
</tbody>
</table>

**Course program**
The example program below is for a full-time, Autumn-commencing student with electrical engineering as the engineering major and human resource management as the business major, with internships taken in Spring semester of Years 2 and 4. For further information, please contact the appropriate UTS Student Centre.

### Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>33130</td>
<td>Mathematical Modelling 1</td>
<td>6cp</td>
</tr>
<tr>
<td>68357</td>
<td>Physical Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>48510</td>
<td>Introduction to Electrical Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48230</td>
<td>Engineering Communication</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48441</td>
<td>Introductory Digital Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>33230</td>
<td>Mathematical Modelling 2</td>
<td>6cp</td>
</tr>
<tr>
<td>26100</td>
<td>Integrating Business Perspectives</td>
<td>6cp</td>
</tr>
<tr>
<td>48520</td>
<td>Electronics and Circuits</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Year 2

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>24108</td>
<td>Marketing Foundations</td>
<td>6cp</td>
</tr>
<tr>
<td>48240</td>
<td>Design Fundamentals</td>
<td>6cp</td>
</tr>
<tr>
<td>48521</td>
<td>Fundamentals of Electrical Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
</tr>
<tr>
<td>48121</td>
<td>Engineering Practice Preview 1</td>
<td>3cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48110</td>
<td>Engineering Experience 1</td>
<td>0cp</td>
</tr>
</tbody>
</table>

### Year 3

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48530</td>
<td>Circuit Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>48430</td>
<td>Embedded C</td>
<td>6cp</td>
</tr>
<tr>
<td>23115</td>
<td>Economics for Business</td>
<td>6cp</td>
</tr>
<tr>
<td>48122</td>
<td>Engineering Practice Review 1</td>
<td>3cp</td>
</tr>
<tr>
<td>48531</td>
<td>Electromechanical Automation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48538</td>
<td>Advanced Mathematics and Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>48540</td>
<td>Signals and Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>48260</td>
<td>Engineering Project Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Year 4

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
<tr>
<td>21129</td>
<td>Managing People and Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>48141</td>
<td>Engineering Practice Preview 2</td>
<td>3cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48570</td>
<td>Data Acquisition and Distribution</td>
<td>6cp</td>
</tr>
<tr>
<td>48541</td>
<td>Advanced Digital Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>48571</td>
<td>Electrical Machines</td>
<td>6cp</td>
</tr>
<tr>
<td>48572</td>
<td>Power Circuit Theory</td>
<td>6cp</td>
</tr>
<tr>
<td>48560</td>
<td>Introductory Control</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48580</td>
<td>Advanced Control</td>
<td>6cp</td>
</tr>
<tr>
<td>48581</td>
<td>Digital Electronics</td>
<td>6cp</td>
</tr>
<tr>
<td>48434</td>
<td>Embedded Software</td>
<td>6cp</td>
</tr>
<tr>
<td>48561</td>
<td>Power Electronics and Drives</td>
<td>6cp</td>
</tr>
<tr>
<td>48582</td>
<td>Power Systems Analysis and Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48240</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21036</td>
<td>Managing Strategic Performance</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one subject from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48450</td>
<td>Real-time Operating Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>48550</td>
<td>Renewable Energy Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>48583</td>
<td>Power Systems Operation and Protection</td>
<td>6cp</td>
</tr>
<tr>
<td>48551</td>
<td>Analog Electronics</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one subject from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48560</td>
<td>Introductory Control</td>
<td>6cp</td>
</tr>
<tr>
<td>48570</td>
<td>Data Acquisition and Distribution</td>
<td>6cp</td>
</tr>
<tr>
<td>48451</td>
<td>Advanced Digital Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>48571</td>
<td>Electrical Machines</td>
<td>6cp</td>
</tr>
<tr>
<td>48572</td>
<td>Power Circuit Theory</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Year 5

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21535</td>
<td>Human Resource Management</td>
<td>6cp</td>
</tr>
<tr>
<td>48142</td>
<td>Engineering Practice Review 2</td>
<td>3cp</td>
</tr>
<tr>
<td>21510</td>
<td>The Global Context of Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48580</td>
<td>Advanced Control</td>
<td>6cp</td>
</tr>
<tr>
<td>48581</td>
<td>Digital Electronics</td>
<td>6cp</td>
</tr>
<tr>
<td>48434</td>
<td>Embedded Software</td>
<td>6cp</td>
</tr>
<tr>
<td>48561</td>
<td>Power Electronics and Drives</td>
<td>6cp</td>
</tr>
<tr>
<td>48582</td>
<td>Power Systems Analysis and Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21440</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21036</td>
<td>Managing Strategic Performance</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one subject from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48450</td>
<td>Real-time Operating Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>48550</td>
<td>Renewable Energy Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>48583</td>
<td>Power Systems Operation and Protection</td>
<td>6cp</td>
</tr>
<tr>
<td>48551</td>
<td>Analog Electronics</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one subject from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48570</td>
<td>Data Acquisition and Distribution</td>
<td>6cp</td>
</tr>
<tr>
<td>48451</td>
<td>Advanced Digital Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>48571</td>
<td>Electrical Machines</td>
<td>6cp</td>
</tr>
<tr>
<td>48572</td>
<td>Power Circuit Theory</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Year 6

**Autumn semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21512</td>
<td>Understanding Organisations: Theory and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>21037</td>
<td>Managing Employee Relations</td>
<td>6cp</td>
</tr>
<tr>
<td>48016</td>
<td>Capstone Project Part A</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48434</td>
<td>Embedded Software</td>
<td>6cp</td>
</tr>
<tr>
<td>48561</td>
<td>Power Electronics and Drives</td>
<td>6cp</td>
</tr>
<tr>
<td>48580</td>
<td>Advanced Control</td>
<td>6cp</td>
</tr>
<tr>
<td>48581</td>
<td>Digital Electronics</td>
<td>6cp</td>
</tr>
<tr>
<td>48582</td>
<td>Power Systems Analysis and Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>
The Bachelor of Engineering Science in Aerospace Operations is a professional degree program offered jointly by UTS and Air Transport Training College. This course was launched in Singapore in 2000. It is a unique degree that equips graduates to take advantage of expanding career options in the fast-growing aerospace industry in Singapore and the region.

**Levels of award**
The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

**Professional recognition**
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord) and is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey. The Diploma in Engineering Practice allows students to accelerate their entry into the engineering profession as a chartered professional engineer by reducing the time required for professional experience after graduation.

**Other information**
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10069v3 Bachelor of Engineering Science in Aerospace Operations

**Award(s):** Bachelor of Engineering Science in Aerospace Operations (BEngSc)

**Commonwealth-supported place?:** No

**Load credit points:** 144

**Course EFTSL:** 3

**Location:** Singapore

**Note(s)**
This course is only offered offshore. It is available in Singapore. The language of tuition is English.

**Overview**
This is a professional degree program offered jointly by UTS and the Singapore Institute of Aerospace Engineers (SIAE). Building on an established SIAE-UTS educational partnership in aerospace operations, this course was launched in Singapore in 2000. This unique degree equips graduates to take advantage of expanding professional opportunities in the fast-growing aerospace industry in Singapore and the region.

**Career options**
The Bachelor of Engineering Science in Aerospace Operations enhances the career prospects of professionals in other industries who wish to move into the aerospace industry, professionals who wish to upgrade and broaden their academic qualifications and technical specialists currently working in the aerospace industry.

**Admission requirements**
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Applicants require a Singapore polytechnic diploma or equivalent. Holders of Licensed Aircraft Maintenance Engineering (LAME) are also considered. Those without a diploma can also be considered for admission based on their performance in other courses and extensive aircraft engineering experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

**Assumed knowledge**
Students must be competent in written and spoken English and the use of basic information technology tools.

**Credit recognition**
Students with a Singapore polytechnic diploma or equivalent qualification may be granted a maximum 96-credit-point exemption out of the required 144 credit points.

**Course duration and attendance**
The typical course duration for a student getting the maximum advanced standing is two years (four semesters) of part-time study.

**Course structure**
Once students have been granted 96 credit points of exemptions, they are required to complete eight compulsory subjects (48 credit points). Students study two subjects a semester.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90550</td>
<td>Core subjects</td>
<td>42cp</td>
</tr>
<tr>
<td>48001</td>
<td>Project BEngSc</td>
<td>6cp</td>
</tr>
<tr>
<td>MAJ03414</td>
<td>Aerospace Engineering</td>
<td>78cp</td>
</tr>
<tr>
<td>CBK90228</td>
<td>Electives</td>
<td>18cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
</tbody>
</table>

**Levels of award**
The course is awarded with high distinction, distinction, credit or pass.

**Further study at UTS**
Bachelor of Engineering Science graduates have the option of continuing their professional development through studies at UTS leading to a four-year Bachelor of Engineering (C10067) (see page 152) degree, a five-year Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) combined award, or combined five-year engineering and business degrees.

Alternatively, graduates of this course may enter postgraduate courses in engineering and/or business management including the Master of Engineering Management (C04094) (see page 314) via a graduate certificate program.

**Other information**
Further information is available from:
 Ai Li Lee
Air Transport Training College
190 Changi Road
#04-01, MDIS Building
Singapore 419974
telephone +65 6346 0311
fax +65 6346 0115
email aili@attc.edu.sg
http://attc.edu.sg
Overview
This combined degree is designed to provide opportunities for students interested in science, the scientific basis of engineering and technology, and the technology itself. Graduates of this course work as cutting edge professionals where science and engineering interact dynamically.

There is a strong interrelation between the progress of engineering and developments in science, and a demonstrated need for professionals with a strong understanding and experience in both areas. Students have the option of undertaking honours in science, or an additional two internships to gain the Diploma in Engineering Practice, or both. This combined degree can be completed in less time than would be required to complete the two degrees separately.

Course aims
This course aims to produce graduates with professional qualifications in science and engineering who are well prepared to pursue a career in either field, or one that combines the skills of both. Students develop valuable skills highly prized by employers, including the technological expertise to understand scientific problems and the design skills to implement solutions.

Career options
Career options depend on the majors and subjects chosen. Options include research, design and development, and scientific management. Graduates work in industry or government, in areas such as biotechnology, communications, energy and resource exploration, environmental protection, medical technology, molecular biology and materials technology, nanotechnology and transportation.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There is provision for students already enrolled in a Bachelor of Science or a Bachelor of Engineering degree to transfer to the combined degree program. The eligibility criteria used to assess transfer applications for students currently enrolled in a science or engineering program are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December. Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

International students
Applicants who successfully complete a recognised pathway program are also eligible to apply.

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course duration is five years full time, 10 years part time, or six years full time with honours.

Full-time attendance involves up to 24 hours each week at the University. Part-time attendance involves up to 12 hours each week at the University. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The program comprises a total of 240 credit points, made up of 162 credit points relating to the Bachelor of Engineering and 78 credit points relating to the Bachelor of Science.

The engineering component of this course is made up of subjects selected from the engineering core and engineering fields of practice (majors).

The science component represents a specific science major. Graduation from the science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Science prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Engineering (C10067) (see page 152) single degree program where they must complete all requirements for the stand-alone single degree version, including the Professional Practice (BE) subject.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the science component must have completed at least 60 credit points of the science major (CBK90386).

Industrial training/professional practice
Students are required to undertake a minimum of 12 weeks of engineering experience.

A Diploma in Engineering Practice is also available. The Diploma in Engineering Practice requires the additional completion of two six-month internships and the engineering practice program.

Course completion requirements

<table>
<thead>
<tr>
<th>Course code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90106</td>
<td>Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90176</td>
<td>Major choice (Engineering)</td>
<td>114cp</td>
</tr>
<tr>
<td>CBK90586</td>
<td>Major choice (Science)</td>
<td>78cp</td>
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<tr>
<td>48100</td>
<td>Professional Practice (BE)</td>
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</tr>
<tr>
<td>Total</td>
<td></td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
The example program below is for a full-time, Autumn-commencing student with electrical engineering as their chosen engineering major.

List of Science majors

<table>
<thead>
<tr>
<th>Course code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ10087</td>
<td>Applied Chemistry</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1088</td>
<td>Applied Physics</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1091</td>
<td>Nanotechnology</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1090</td>
<td>Biomedical Science</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1120</td>
<td>Medical Science</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1119</td>
<td>Biotechnology</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1089</td>
<td>Environmental Science</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ1095</td>
<td>Mathematics</td>
<td>78cp</td>
</tr>
</tbody>
</table>

List of Engineering majors

<table>
<thead>
<tr>
<th>Course code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ3025</td>
<td>Civil Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>MAJ3026</td>
<td>Civil and Environmental Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>MAJ3028</td>
<td>Electrical Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>MAJ3349</td>
<td>ICT Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>MAJ3030</td>
<td>Mechanical Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>MAJ3450</td>
<td>Mechanical and Mechatronic Engineering</td>
<td>114cp</td>
</tr>
<tr>
<td>CBK9036</td>
<td>No specified major</td>
<td>114cp</td>
</tr>
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Students are advised to read the General information and Course area information sections in conjunction with specific course entry.
### Applied Chemistry major

**Year 1**

**Autumn semester**
- 33130 Mathematical Modelling 1 6cp
- 48510 Introduction to Electrical Engineering 6cp
- 68037 Physical Modelling 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 33230 Mathematical Modelling 2 6cp
- 48521 Fundamentals of Electrical Engineering 6cp
- 48520 Electronics and Circuits 6cp
- 65212 Chemistry 2 6cp

**Year 2**

**Autumn semester**
- 48230 Engineering Communication 6cp
- 48530 Circuit Analysis 6cp
- 48441 Introductory Digital Systems 6cp
- 65202 Organic Chemistry 1 6cp

**Spring semester**
- 48240 Design Fundamentals 6cp
- 48430 Embedded C 6cp
- 68038 Advanced Mathematics and Physics 6cp
- 65306 Analytical Chemistry 1 6cp

**Year 3**

**Autumn semester**
- 48540 Signals and Systems 6cp
- 48531 Electromechanical Automation 6cp
- 65307 Physical Chemistry 1 6cp
- 65410 Chemical Safety and Legislation 6cp

**Spring semester**
- 65411 Inorganic Chemistry 1 6cp
- 48250 Engineering Economics and Finance 6cp

Select one subject from the following: 6cp
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp

Select 6 credit points of electives 6cp

**Year 4**

**Autumn semester**
- 65409 Analytical Chemistry 2 6cp
- 48260 Engineering Project Management 6cp
- 48100 Professional Practice (BE) 6cp

Select one subject from the following: 6cp
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48434 Embedded Software 6cp
- 48561 Power Electronics and Drives 6cp
- 48582 Power Systems Analysis and Design 6cp

Select 6 credit points of electives 6cp

**Spring semester**
- 48270 Entrepreneurship and Commercialisation 6cp
- 65508 Organic Chemistry 2 6cp

Select two subjects from the following: 12cp
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp
- 49274 Advanced Robotics 6cp
- 48551 Analog Electronics 6cp
- 48450 Real-time Operating Systems 6cp
- 48550 Renewable Energy Systems 6cp
- 48583 Power Systems Operation and Protection 6cp

**Year 5**

**Autumn semester**
- 65509 Inorganic Chemistry 2 6cp
- 48016 Capstone Project Part A 6cp

Select one subject from the following: 6cp
- 48305 Polymer Science 6cp
- 65509 Molecular Nanotechnology 6cp
- 68075 Nanomaterials 6cp
- 65545 Forensic Toxicology 6cp

Select one subject from the following: 6cp
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48434 Embedded Software 6cp
- 48561 Power Electronics and Drives 6cp
- 48582 Power Systems Analysis and Design 6cp

**Spring semester**
- 65606 Analytical Chemistry 3 6cp
- 48026 Capstone Project Part B 6cp
- 65607 Physical Chemistry 2 6cp

Select one subject from the following: 6cp
- 49274 Advanced Robotics 6cp
- 48551 Analog Electronics 6cp
- 48450 Real-time Operating Systems 6cp
- 48550 Renewable Energy Systems 6cp
- 48583 Power Systems Operation and Protection 6cp

### Applied Physics major

**Year 1**

**Autumn semester**
- 33130 Mathematical Modelling 1 6cp
- 48510 Introduction to Electrical Engineering 6cp
- 68037 Physical Modelling 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 33230 Mathematical Modelling 2 6cp
- 48521 Fundamentals of Electrical Engineering 6cp
- 48520 Electronics and Circuits 6cp
- 65212 Chemistry 2 6cp

**Year 2**

**Autumn semester**
- 48230 Engineering Communication 6cp
- 48530 Circuit Analysis 6cp
- 48441 Introductory Digital Systems 6cp
- 65202 Organic Chemistry 1 6cp

**Spring semester**
- 48240 Design Fundamentals 6cp
- 48430 Embedded C 6cp
- 68038 Advanced Mathematics and Physics 6cp
- 65306 Analytical Chemistry 1 6cp

**Year 3**

**Autumn semester**
- 48540 Signals and Systems 6cp
- 48531 Electromechanical Automation 6cp
- 65307 Physical Chemistry 1 6cp
- 65410 Chemical Safety and Legislation 6cp

**Spring semester**
- 65411 Inorganic Chemistry 1 6cp
- 48250 Engineering Economics and Finance 6cp

Select one subject from the following: 6cp
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp

Select 6 credit points of electives 6cp

**Year 4**

**Autumn semester**
- 65409 Analytical Chemistry 2 6cp
- 48260 Engineering Project Management 6cp
- 48100 Professional Practice (BE) 6cp

Select one subject from the following: 6cp
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48434 Embedded Software 6cp
- 48561 Power Electronics and Drives 6cp
- 48582 Power Systems Analysis and Design 6cp

Select 6 credit points of electives 6cp

**Spring semester**
- 48270 Entrepreneurship and Commercialisation 6cp
- 65508 Organic Chemistry 2 6cp

Select two subjects from the following: 12cp
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp
- 49274 Advanced Robotics 6cp
- 48551 Analog Electronics 6cp
- 48450 Real-time Operating Systems 6cp
- 48550 Renewable Energy Systems 6cp
- 48583 Power Systems Operation and Protection 6cp

**Year 5**

**Autumn semester**
- 48540 Signals and Systems 6cp
- 48531 Electromechanical Automation 6cp
- 48240 Design Fundamentals 6cp
- 68037 Physical Modelling 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 48430 Embedded C 6cp
- 68038 Advanced Mathematics and Physics 6cp
- 68201 Physics in Action 6cp
- 68070 Introduction to Materials 6cp

**Year 3**

**Autumn semester**
- 48540 Signals and Systems 6cp
- 48531 Electromechanical Automation 6cp
- 48240 Design Fundamentals 6cp
- 68037 Physical Modelling 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 48315 Imaging Science 6cp
- 48250 Engineering Economics and Finance 6cp

Select one subject from the following: 6cp
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp

Select 6 credit points of electives 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
## Year 4
### Autumn semester
- **68412** Energy Science and Technology 6cp
- **48260** Engineering Project Management 6cp
- **48100** Professional Practice (BE) 0cp

Select one subject from the following: 6cp

- **48580** Advanced Control 6cp
- **48581** Digital Electronics 6cp
- **48434** Embedded Software 6cp
- **48561** Power Electronics and Drives 6cp
- **48582** Power Systems Analysis and Design 6cp

Select 6 credit points of electives 6cp

### Spring semester
- **48270** Entrepreneurship and Commercialisation 6cp
- **68413** Quantum Physics 6cp

Select two subjects from the following: 12cp

- **48560** Introductory Control 6cp
- **48370** Data Acquisition and Distribution 6cp
- **48451** Advanced Digital Systems 6cp
- **48571** Electrical Machines 6cp
- **48572** Power Circuit Theory 6cp
- **49274** Advanced Robotics 6cp
- **48551** Analog Electronics 6cp
- **48450** Real-time Operating Systems 6cp
- **48550** Renewable Energy Systems 6cp
- **48583** Power Systems Operation and Protection 6cp

### Year 5
#### Autumn semester
- **68416** Computational Physics 6cp
- **48016** Capstone Project Part A 6cp
- **68606** Solid-state Science and Nanodevices 6cp

Select one subject from the following: 6cp

- **48580** Advanced Control 6cp
- **48581** Digital Electronics 6cp
- **48434** Embedded Software 6cp
- **48561** Power Electronics and Drives 6cp
- **48582** Power Systems Analysis and Design 6cp

### Spring semester
- **48026** Capstone Project Part B 6cp

Select two subjects from the following: 12cp

- **68320** Scanning Probe and Electron Microscopy 6cp
- **68414** Advanced Mechanics 6cp
- **68415** Measurement and Analysis of Physical Processes 6cp
- **68513** Optics and Nanophotonics 6cp

Select one subject from the following: 6cp

- **49274** Advanced Robotics 6cp
- **48551** Analog Electronics 6cp
- **48450** Real-time Operating Systems 6cp
- **48550** Renewable Energy Systems 6cp
- **48583** Power Systems Operation and Protection 6cp

### Biomedical Science major
#### Year 1
#### Autumn semester
- **33130** Mathematical Modelling 1 6cp
- **48510** Introduction to Electrical Engineering 6cp
- **68037** Physical Modelling 6cp
- **65111** Chemistry 1 6cp

#### Spring semester
- **33230** Mathematical Modelling 2 6cp
- **48521** Fundamentals of Electrical Engineering 6cp
- **48520** Electronics and Circuits 6cp
- **91161** Cell Biology and Genetics 6cp

#### Year 2
#### Autumn semester
- **48230** Engineering Communication 6cp
- **48530** Circuit Analysis 6cp
- **48441** Introductory Digital Systems 6cp
- **91400** Human Anatomy and Physiology 6cp

### Spring semester
- **48430** Embedded C 6cp
- **68038** Advanced Mathematics and Physics 6cp
- **91320** Metabolic Biochemistry 6cp
- **91314** General Microbiology 6cp

### Year 3
#### Autumn semester
- **48540** Signals and Systems 6cp
- **48531** Electromechanical Automation 6cp
- **91132** Molecular Biology 1 6cp
- **48240** Design Fundamentals 6cp

#### Spring semester
- **65212** Chemistry 2 6cp
- **48250** Engineering Economics and Finance 6cp

Select one subject from the following: 6cp

- **48560** Introductory Control 6cp
- **48370** Data Acquisition and Distribution 6cp
- **48451** Advanced Digital Systems 6cp
- **48571** Electrical Machines 6cp
- **48572** Power Circuit Theory 6cp

Select 6 credit points of electives 6cp

### Year 4
#### Autumn semester
- **48260** Engineering Project Management 6cp
- **91500** Histology 6cp
- **48100** Professional Practice (BE) 0cp

Select one subject from the following: 6cp

- **48580** Advanced Control 6cp
- **48581** Digital Electronics 6cp
- **48434** Embedded Software 6cp
- **48561** Power Electronics and Drives 6cp
- **48582** Power Systems Analysis and Design 6cp

### Spring semester
- **91326** Analytical Biochemistry 6cp
- **91350** Epidemiology and Public Health Microbiology 6cp
- **91401** Introductory Haematology and Immunology 6cp

Select two subjects from the following: 12cp

- **48560** Introductory Control 6cp
- **48370** Data Acquisition and Distribution 6cp
- **48451** Advanced Digital Systems 6cp
- **48571** Electrical Machines 6cp
- **48572** Power Circuit Theory 6cp
- **49274** Advanced Robotics 6cp
- **48551** Analog Electronics 6cp
- **48450** Real-time Operating Systems 6cp
- **48550** Renewable Energy Systems 6cp
- **48583** Power Systems Operation and Protection 6cp

### Year 5
#### Autumn semester
- **48016** Capstone Project Part A 6cp

Select two subjects from the following: 12cp

- **91338** Clinical Bacteriology 6cp
- **91358** Advanced Haematology 6cp
- **91344** Medical and Diagnostic Biochemistry 6cp
- **91359** Advanced Immunology 6cp
- **91350** Molecular Biology 2 6cp

Select one subject from the following: 6cp

- **48580** Advanced Control 6cp
- **48581** Digital Electronics 6cp
- **48434** Embedded Software 6cp
- **48561** Power Electronics and Drives 6cp
- **48582** Power Systems Analysis and Design 6cp

#### Spring semester
- **48560** Introductory Control 6cp
- **48570** Data Acquisition and Distribution 6cp
- **48451** Advanced Digital Systems 6cp
- **48571** Electrical Machines 6cp
- **48572** Power Circuit Theory 6cp
- **49274** Advanced Robotics 6cp
- **48551** Analog Electronics 6cp
- **48450** Real-time Operating Systems 6cp
- **48550** Renewable Energy Systems 6cp
- **48583** Power Systems Operation and Protection 6cp

### Year 1
### Autumn semester
- **33130** Mathematical Modelling 1 6cp
- **48510** Introduction to Electrical Engineering 6cp
- **68037** Physical Modelling 6cp
- **65111** Chemistry 1 6cp

### Spring semester
- **33230** Mathematical Modelling 2 6cp
- **48521** Fundamentals of Electrical Engineering 6cp
- **48520** Electronics and Circuits 6cp
- **91161** Cell Biology and Genetics 6cp

### Year 2
### Autumn semester
- **48230** Engineering Communication 6cp
- **48530** Circuit Analysis 6cp
- **48441** Introductory Digital Systems 6cp
- **91400** Human Anatomy and Physiology 6cp

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Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
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Spring semester
48270  Entrepreneurship and Commercialisation  6cp
48026  Capstone Project Part B  6cp
Select one subject from the following:  6cp
49274  Advanced Robotics  6cp
48551  Analog Electronics  6cp
48450  Real-time Operating Systems  6cp
48550  Renewable Energy Systems  6cp
48583  Power Systems Operation and Protection  6cp
Select one subject from the following:  6cp
91129  Transfusion Science  6cp
91352  Parasitology  6cp
91345  Biochemistry, Genes and Disease  6cp
91402  Anatomical Pathology  6cp

Biotechnology major
Year 1
Autumn semester
33130  Mathematical Modelling 1  6cp
48510  Introduction to Electrical Engineering  6cp
68037  Physical Modelling  6cp
65111  Chemistry 1  6cp

Spring semester
33230  Mathematical Modelling 2  6cp
48521  Fundamentals of Electrical Engineering  6cp
48520  Electronics and Circuits  6cp
65212  Chemistry 2  6cp

Year 2
Autumn semester
48230  Engineering Communication  6cp
48530  Circuit Analysis  6cp
48441  Introductory Digital Systems  6cp
91161  Cell Biology and Genetics  6cp

Spring semester
48240  Design Fundamentals  6cp
48430  Embedded C  6cp
68038  Advanced Mathematics and Physics  6cp
91400  Human Anatomy and Physiology  6cp

Year 3
Autumn semester
48540  Signals and Systems  6cp
48531  Electromechanical Automation  6cp
91320  Metabolic Biochemistry  6cp
91314  General Microbiology  6cp

Spring semester
48250  Engineering Economics and Finance  6cp
91132  Molecular Biology 1  6cp
Select one subject from the following:  6cp
48560  Introductory Control  6cp
48570  Data Acquisition and Distribution  6cp
48451  Advanced Digital Systems  6cp
48571  Electrical Machines  6cp
48572  Power Circuit Theory  6cp
Select 6 credit points of electives  6cp

Year 4
Autumn semester
48260  Engineering Project Management  6cp
91144  Plant Biotechnology  6cp
48100  Professional Practice (BE)  6cp
Select one subject from the following:  6cp
48580  Advanced Control  6cp
48581  Digital Electronics  6cp
48434  Embedded Software  6cp
48561  Power Electronics and Drives  6cp
48582  Power Systems Analysis and Design  6cp

Spring semester
48270  Entrepreneurship and Commercialisation  6cp
Select two subjects from the following:  12cp
48560  Introductory Control  6cp
48570  Data Acquisition and Distribution  6cp
48451  Advanced Digital Systems  6cp
48571  Electrical Machines  6cp
48572  Power Circuit Theory  6cp
49274  Advanced Robotics  6cp
48551  Analog Electronics  6cp
48450  Real-time Operating Systems  6cp
48550  Renewable Energy Systems  6cp
48583  Power Systems Operation and Protection  6cp
Select 6 credit points of electives  6cp

Year 5
Autumn semester
48016  Capstone Project Part A  6cp
91369  Biobusiness and Environmental Biotechnology  6cp
Select one subject from the following:  6cp
91335  Molecular Biology 2  6cp
91359  Advanced Immunology  6cp
Select one subject from the following:  6cp
48580  Advanced Control  6cp
48581  Digital Electronics  6cp
48434  Embedded Software  6cp
48561  Power Electronics and Drives  6cp
48582  Power Systems Analysis and Design  6cp

Spring semester
48026  Capstone Project Part B  6cp
91368  Bioreactors and Bioprocessing  6cp
Select one subject from the following:  6cp
91326  Analytical Biochemistry  6cp
91330  Epidemiology and Public Health Microbiology  6cp
91401  Introductory Haematology and Immunology  6cp
Select one subject from the following:  6cp
49274  Advanced Robotics  6cp
48551  Analog Electronics  6cp
48450  Real-time Operating Systems  6cp
48550  Renewable Energy Systems  6cp
48583  Power Systems Operation and Protection  6cp

Environmental Science major
Year 1
Autumn semester
33130  Mathematical Modelling 1  6cp
48510  Introduction to Electrical Engineering  6cp
68037  Physical Modelling  6cp
91107  The Biosphere  6cp

Spring semester
33230  Mathematical Modelling 2  6cp
48521  Fundamentals of Electrical Engineering  6cp
48520  Electronics and Circuits  6cp
91123  Biocomplexity  6cp

Year 2
Autumn semester
48230  Engineering Communication  6cp
48530  Circuit Analysis  6cp
48441  Introductory Digital Systems  6cp
91154  Ecology  6cp

Spring semester
33230  Mathematical Modelling 2  6cp
48521  Fundamentals of Electrical Engineering  6cp
48520  Electronics and Circuits  6cp
91123  Biocomplexity  6cp

Year 3
Autumn semester
48540  Signals and Systems  6cp
48531  Electromechanical Automation  6cp
91110  Experimental Design and Sampling  6cp
91149  Geological Processes  6cp

Spring semester
Select one of the following:
- 91159 Environmental Forensics 6cp
- 91157 Marine Communities 6cp
- 48250 Engineering Economics and Finance 6cp
Select one subject from the following:
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp
Select 6 credit points of electives 6cp

Year 1

Mathematics major

Year 1

Autumn semester
- 33130 Mathematical Modelling I 6cp
- 48510 Introduction to Electrical Engineering 6cp
- 68037 Physical Modelling 6cp
- 35140 Introduction to Quantitative Management 6cp

Spring semester

Select one subject from the following:
- 33230 Mathematical Modelling 2 6cp
- 48521 Fundamentals of Electrical Engineering 6cp
- 48520 Electronics and Circuits 6cp
- 35111 Applications of Discrete Mathematics 6cp

Year 2

Autumn semester
- 48230 Engineering Communication 6cp
- 48530 Circuit Analysis 6cp
- 48441 Introductory Digital Systems 6cp
- 35212 Computational Linear Algebra 6cp

Spring semester
- 48240 Design Fundamentals 6cp
- 48430 Embedded C 6cp
- 68038 Advanced Mathematics and Physics 6cp
- 35100 Introduction to Sample Surveys 6cp

Year 3

Autumn semester
- 48540 Signals and Systems 6cp
- 48531 Electromechanical Automation 6cp
- 35363 Stochastic Models 6cp
- 35241 Optimisation in Quantitative Management 6cp

Spring semester
- 48250 Engineering Economics and Finance 6cp
- 35231 Differential Equations 6cp
Select one subject from the following:
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp
Select 6 credit points of electives 6cp

Year 4

Autumn semester
- 35232 Advanced Calculus 6cp
- 48260 Engineering Project Management 6cp
- 48100 Professional Practice (BE) 0cp
Select one subject from the following:
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48582 Power Electronics and Drives 6cp
- 48583 Power Systems Analysis and Design 6cp
Select two subjects from the following:
- 48560 Introductory Control 6cp
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48582 Power Electronics and Drives 6cp
- 48583 Power Systems Analysis and Design 6cp
Select 6 credit points of electives 6cp

Spring semester
- 48270 Entrepreneurship and Commercialisation 6cp
- 35353 Regression Analysis 6cp
Select two subjects from the following:
- 48560 Introductory Control 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48451 Advanced Digital Systems 6cp
- 48571 Electrical Machines 6cp
- 48572 Power Circuit Theory 6cp
- 48583 Power Systems Operation and Protection 6cp
Select 6 credit points of electives 6cp

Year 5

Autumn semester
- 48016 Capstone Project Part A 6cp
Select two subjects from the following:
- 35356 Design and Analysis of Experiments 6cp
- 35383 High Performance Computing 6cp
- 35252 Mathematical Statistics 6cp
Select one subject from the following:
- 48580 Advanced Control 6cp
- 48581 Digital Electronics 6cp
- 48434 Embedded Software 6cp
- 48561 Power Electronics and Drives 6cp
- 48582 Power Systems Analysis and Design 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Spring semester
48250 Engineering Economics and Finance 6cp
68315 Imaging Science 6cp
Select one subject from the following: 6cp
48560 Introductory Control 6cp
48570 Data Acquisition and Distribution 6cp
48451 Advanced Digital Systems 6cp
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp
Select 6 credit points of electives 6cp

Year 4

Autumn semester
48260 Engineering Project Management 6cp
63307 Physical Chemistry I 6cp
48100 Professional Practice (BE) 0cp
Select one subject from the following: 6cp
48580 Advanced Control 6cp
48581 Digital Electronics 6cp
48434 Embedded Software 6cp
48561 Power Electronics and Drives 6cp
48582 Power Systems Analysis and Design 6cp
Select 6 credit points of electives 6cp

Spring semester
48270 Entrepreneurship and Commercialisation 6cp
68413 Quantum Physics 6cp
Select two subjects from the following: 12cp
48560 Introductory Control 6cp
48570 Data Acquisition and Distribution 6cp
48451 Advanced Digital Systems 6cp
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp
49274 Advanced Robotics 6cp
48551 Analog Electronics 6cp
48450 Real-time Operating Systems 6cp
48550 Renewable Energy Systems 6cp
48583 Power Systems Operation and Protection 6cp

Year 5

Autumn semester
68606 Solid-state Science and Nanodevices 6cp
48016 Capstone Project Part A 6cp
67509 Molecular Nanotechnology 6cp
Select one subject from the following: 6cp
48580 Advanced Control 6cp
48581 Digital Electronics 6cp
48434 Embedded Software 6cp
48561 Power Electronics and Drives 6cp
48582 Power Systems Analysis and Design 6cp

Spring semester
48026 Capstone Project Part B 6cp
Select two subjects from the following: 12cp
67510 Surface Processes 6cp
68320 Scanning Probe and Electron Microscopy 6cp
68513 Optics and Nanophotonics 6cp
91140 BioNanotechnology 6cp
Select one subject from the following: 6cp
49274 Advanced Robotics 6cp
48551 Analog Electronics 6cp
48450 Real-time Operating Systems 6cp
48550 Renewable Energy Systems 6cp
48583 Power Systems Operation and Protection 6cp

Levels of award
The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole.

Honours
An honours program in science is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in science. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10074v5 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice

Award(s): Bachelor of Engineering in [name of Engineering major] Diploma in Engineering Practice (BE DipEngPrac) Bachelor of Science in [name of Science major]
CRICOS code: 043278C
Commonwealth-supported place?: Yes
Load credit points: 252
Course EFTSL: 5.25
Location: City campus

Note(s)
This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it.

Overview
This combined degree is the same as the Bachelor of Engineering Bachelor of Science (C10073) (see page 160), except for the additional requirement of two internships and completion of the engineering practice program. Students can transfer to this program if they wish to complete the Diploma in Engineering Practice.

There is a strong interrelation between the progress of engineering and developments in science and a demonstrated need for professionals with a strong understanding and experience in both areas.

Students also have the option of undertaking honours in science.

Course aims
The course aims to develop in students valuable skills highly prized by employers, including the technological expertise to understand scientific problems and the design skills to implement solutions.

Career options
Career options depend on the majors and subjects chosen. Options include research, design and development, and scientific management. Graduates work in industry or government, in areas such as biotechnology, communications, energy and resource exploration, environmental protection, medical technology, molecular biology and materials technology, nanotechnology and transportation.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There is provision for students already enrolled in a Bachelor of Science or a Bachelor of Engineering degree to transfer to the combined degree program. The eligibility criteria used to assess transfer applications for students currently enrolled in a science or engineering program are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 30 November.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
Local students
Entry to individual engineering majors is subject to ATAR requirements.

International students
Applicants who successfully complete a recognised pathway program are also eligible to apply.

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course duration is six years full time, 12 years part time, or seven years full time with honours.

Full-time attendance involves up to 24 hours each week at the University. Part-time attendance involves up to 12 hours each week at the University. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The program comprises a total of 252 credit points, made up of 174 credit points relating to the Bachelor of Engineering Diploma in Engineering Practice and 78 credit points relating to the Bachelor of Science.

The engineering component of this course is made up of subjects selected from the engineering core, the engineering practice program and the engineering fields of practice (majors).

The science component represents a specific science major.

Graduation from the science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Science prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) single degree program where they must complete all requirements for the stand-alone single degree version.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the science component must have completed at least 60 credit points of the science major (CBK90586).

Industrial training/professional practice
The Diploma in Engineering Practice requires the completion of two six-month internships and the engineering practice program.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90106 Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90271 Engineering program</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90586 Major choice (Science)</td>
<td>78cp</td>
</tr>
<tr>
<td>CBK90176 Major choice (Engineering)</td>
<td>114cp</td>
</tr>
<tr>
<td>Total</td>
<td>252cp</td>
</tr>
</tbody>
</table>

Levels of award
The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

Honours
An honours program in science is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in science. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.uts.edu.au

C10075v6 Bachelor of Engineering Bachelor of Medical Science
Award(s): Bachelor of Engineering in [name of Engineering major] | BE
Bachelor of Medical Science | BMedSc
UAC code: 609370
CRICOS code: 040710E
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
This combined degree is designed to provide opportunities for students interested in medical science, the scientific basis of engineering and technology, and the technology itself.

There is a strong interrelation between the progress of engineering and developments in science, and a demonstrated need for professionals with a strong understanding and experience in both areas.

A strong professional focus ensures graduates of this course learn the skills employers want with a solid link between theory and practice and the benefits of hands-on experience.

This combined degree can be completed in less time than would be required to complete the two degrees separately.

Course aims
This course aims to produce graduates with professional qualifications in medical science and engineering who are well prepared to pursue a career in either field, or one that combines the skills of both.

Career options
Career options include positions in biotechnology, communications, construction, energy and resource exploration and development, environmental protection and management, materials technology, mathematical modelling, medical technology and instrumentation, molecular biology, nanotechnology and transportation.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There is provision for students already enrolled in a Bachelor of Medical Science or a Bachelor of Engineering degree to transfer to this combined degree program. The eligibility criteria used to assess transfer applications are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December.

Non-current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard.
English Advanced is recommended.

Course duration and attendance
This course is offered over five years full time, 10 years part time, or six years full time with honours.

Full-time attendance involves approximately 24 hours each week at the University, which allows a full stage of the course to be completed in one semester. Part-time attendance involves approximately 12 hours each week at the University, which allows a full stage to be completed in one year. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The program comprises a total of 240 credit points, made up of 162 credit points relating to the Bachelor of Engineering and 78 credit points relating to the Bachelor of Medical Science.

The engineering component of this course is made up of subjects selected from the engineering core and the engineering fields of practice (majors).

The medical science component represents a specific medical science strand.

Graduation from the medical science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Medical Science prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Engineering (C10067) (see page 152) single degree program where they must complete all requirements for the stand-alone single degree version, including the Professional Practice (BE) subject.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the medical science component must have completed at least 60 credit points of the medical science major (STM90348).

Industrial training/professional practice
Students are required to undertake a minimum of 12 weeks of engineering experience.
A Diploma in Engineering Practice is also available. The Diploma in Engineering Practice requires the additional completion of two six-month internships and the engineering practice program.

Course completion requirements
STM90106 Core subjects 48cp
CBK90176 Major choice (Engineering) 114cp
STM90348 Core subjects (Medical Science) 78cp
48100 Professional Practice (BE) 0cp
Total 240cp

Course program
The example program below is for a full-time, Autumn-commencing student with electrical engineering as their chosen engineering major.

Year 1
Autumn semester
33130 Mathematical Modelling 1 6cp
48510 Introduction to Electrical Engineering 6cp
68037 Physical Modelling 6cp
65111 Chemistry 1 6cp

Spring semester
33320 Mathematical Modelling 2 6cp
48023 Programming Fundamentals 6cp
48520 Electronics and Circuits 6cp
65212 Chemistry 2 6cp

Year 2
Autumn semester
48230 Engineering Communication 6cp
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48441 Introductory Digital Systems 6cp
91161 Cell Biology and Genetics 6cp

Spring semester
48240 Design Fundamentals 6cp
48530 Circuit Analysis 6cp
68038 Advanced Mathematics and Physics 6cp
91400 Human Anatomy and Physiology 6cp

Year 3
Autumn semester
48430 Embedded C 6cp
48531 Electromechanical Automation 6cp
91320 Metabolic Biochemistry 6cp
91314 General Microbiology 6cp

Spring semester
48451 Advanced Digital Systems 6cp
48540 Signals and Systems 6cp
48250 Engineering Economics and Finance 6cp
91705 Medical Devices and Diagnostics 6cp

Year 4
Autumn semester
48260 Engineering Project Management 6cp
48570 Data Acquisition and Distribution 6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
91703 Physiological Systems 6cp
48100 Professional Practice (BE) 0cp

Spring semester
48550 Renewable Energy Systems 6cp
48551 Analog Electronics 6cp
48560 Introductory Control 6cp
91239 Human Pathophysiology 6cp

Year 5
Autumn semester
48434 Embedded Software 6cp
48016 Capstone Project Part A 6cp
91706 Neuroscience 6cp
91707 Pharmacology 1 6cp

Spring semester
48270 Entrepreneurship and Commercialisation 6cp
48026 Capstone Project Part B 6cp
91708 Medical and Applied Physiology 6cp
91709 Pharmacology 2 6cp

Levels of award
The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole.

Honours
An honours program in medical science (C09031) (see page 116) is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in medical sciences. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

C10076v6 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice

Overview
This combined degree is the same as the Bachelor of Engineering Bachelor of Medical Science (C10075) (see page 167), except for the additional requirement of two internships and completion of the engineering practice program. Students can transfer to this program if they wish to complete the Diploma in Engineering Practice.

There is a strong interrelation between the progress of engineering and developments in science, and a demonstrated need for professionals with a strong understanding and experience in both areas. A strong professional focus ensures graduates of this course learn the skills employers want with a solid link between theory and practice, and the benefits of hands-on experience.

This combined degree can be completed in less than ten years. It is expected that employers will release part-time students for at least one part-time course per at least one part-time course per year.

Career options
This course produces graduates with professional qualifications in medical science and engineering who are well prepared to pursue a career in either field or one that combines the skills of both.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There is provision for students already enrolled in a Bachelor of Medical Science or a Bachelor of Engineering degree to transfer to this combined degree program. The eligibility criteria used to assess transfer applications are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants.

Current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 30 November.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-585 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-66; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Local students
Entry to individual engineering majors is subject to ATAR requirements.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
This course is offered over six years full time, 12 years part time, or seven years full time with honours.

Full-time attendance involves approximately 24 hours each week at the University, which allows a full stage of the course to be completed in one semester. Part-time attendance involves approximately 12 hours each week at the University, which allows a full stage to be completed in one year. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The program comprises a total of 252 credit points, made up of 174 credit points from the Bachelor of Engineering Diploma in Engineering Practice and 78 credit points relating to the Bachelor of Medical Science.

The engineering component of this course is made up of subjects selected from the engineering core, the engineering practice program and the engineering fields of practice (majors).

The medical science component represents a specific medical science strand.

Graduation from the medical science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Medical Science prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the medical science component they must apply for transfer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) single degree program where they must complete all requirements for the stand-alone single degree version.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the medical science component must have completed at least 60 credit points of the medical science major (STM90348).

Industrial training/professional practice
The Diploma in Engineering Practice requires the completion of two six-month internships and the Engineering Practice Program.

Course completion requirements
STM90010 Core subjects: 48cp
STM90271 Engineering practice program: 12cp
CBK90176 Major choice (Engineering): 114cp
STM90348 Core subjects (Medical Science): 78cp
Total 252cp

Levels of award
The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

Honours
An honours program in medical science (C09031) (see page 116) is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in medical sciences. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Overview
This combined degree is designed to provide opportunities for students interested in biotechnology, the scientific basis of engineering and technology, and the technology itself. Engineers are needed in the biotechnology field to design new technologies for industries such as the food, agricultural, environmental and medical biotechnology industries. A strong professional focus ensures graduates have the skills employers want with a solid link between theory and practice, and the benefits of hands-on experience. This combined degree can be completed in less time than would be required to complete the two degrees separately.

Course aims
This course aims to produce graduates with professional qualifications in biotechnology and engineering who are well prepared to pursue a career in either field, or one that combines the skills of both.

Career options
Career options include positions in biotechnology, materials technology, medical technology and instrumentation, molecular biology and nanotechnology. Good employment opportunities exist with government scientific organisations, in research in universities, hospitals and industry, and in specialised development and consulting companies.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. There is provision for students already enrolled in a Bachelor of Biotechnology or a Bachelor of Engineering degree to transfer to this combined degree program. The eligibility criteria used to assess transfer applications are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants.

Non-current school leavers are advised to submit a HSC Bonus Scheme Questionnaire to UTS by 2 December. Current school leavers are advised to complete the employment question on their UAC application as bonus points may be awarded on the basis of relevant work experience. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course duration is five years full time, 10 years part time, or six years full time with honours.

Full-time attendance involves approximately 24 hours each week at the University, which allows a full stage of the course to be completed in one semester. Part-time attendance involves approximately 12 hours each week at the University, which allows a full stage to be completed in one year. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The course comprises a total of 240 credit points, made up of 162 credit points of engineering subjects and 78 credit points of biotechnology subjects.

The engineering component of this course is made up of subjects selected from the engineering core and the engineering fields of practice (majors). The biotechnology component represents a specific biotechnology strand. There is an emphasis on DNA technologies and applications, and on industrial aspects of biotechnology. Students attain a high level of competence in microbiology and biochemistry, and learn to design products involving the application of biotechnology in product manufacturing.

Graduation from the biotechnology component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Biotechnology prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Biotechnology (C10172) (see page 215) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the biotechnology component they must apply for transfer to the Bachelor of Engineering (C10067) (see page 152) single degree program where they must complete all requirements for the stand-alone single degree version, including the Professional Practice (BE) subject.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the biotechnology component must have completed at least 60 credit points of biotechnology subjects (STM90274).

Industrial training/professional practice
Students are required to undertake a minimum of 12 weeks of engineering experience. A Diploma in Engineering Practice is also available. The Diploma in Engineering Practice requires the additional completion of two six-month internships and the engineering practice program.

Course completion requirements
STM90106 Core subjects 48cp
CBK90176 Major choice (Engineering) 114cp
STM90274 Core subjects (Biotechnology) 78cp
48100 Professional Practice (BE) 0cp
Total 240cp

Course program
The example program below is for a full-time, Autumn-commencing student with electrical engineering as their chosen engineering major.

Year 1
Autumn semester
33130 Mathematical Modelling 1 6cp
48510 Introduction to Electrical Engineering 6cp
68037 Physical Modelling 6cp
65111 Chemistry 1 6cp
Spring semester
33230 Mathematical Modelling 2 6cp
48023 Programming Fundamentals 6cp
48520 Electronics and Circuits 6cp
65212 Chemistry 2 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries. Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, by countries including the UK, USA, Hong Kong China, Malaysia, (under the Washington Accord the degree is internationally recognised. The Bachelor of Engineering is accredited by Engineers Australia enhances their employment prospects. students to continue with postgraduate studies if desired and coursework and to research work in biotechnology. It allows selected honours program is designed to introduce students to more advanced honours program in biotechnology (C09022) (see page 113) Levels of award The Bachelor of Engineering may be awarded with first or second class honours for meritorious performance in the course as a whole. Honours An honours program in biotechnology (C09022) (see page 113) is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in biotechnology. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects. Professional recognition The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations. Other information Further information is available from: Building 1 Student Centre telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au C10079v5 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice Award(s): Bachelor of Engineering in [name of Engineering major] Diploma in Engineering Practice (BE DipEngPrac) Bachelor of Biotechnology (BBiotech) CRICOS code: 059754D Commonwealth-supported place?: Yes Load credit points: 252 Course EFTSL: 5.25 Location: City campus Note(s) This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it. Overview This combined degree is the same as the Bachelor of Engineering Bachelor of Biotechnology (C10078) (see page 170), except for the additional requirement of two internships and completion of the engineering practice program. Students can transfer to this program if they wish to complete the Diploma in Engineering Practice. Engineers are needed in the biotechnology field to design new technologies for industries such as the food, agricultural, environmental and medical biotechnology industries. A strong professional focus ensures graduates of this course learn the skills employers want with a solid link between theory and practice, and the benefits of hands-on experience. This combined degree can be completed in less time than would be required to complete the two degrees separately. Course aims This course aims to produce graduates with professional qualifications in biotechnology and engineering who are well prepared to pursue a career in either field, or one that combines the skills of both. Career options Career options include positions in biotechnology, materials technology, medical technology and instrumentation, molecular biology and nanotechnology. Good employment opportunities exist with government scientific organisations, research in universities, hospitals and industry, and in specialised development and consulting companies. Admission requirements Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. There is provision for students already enrolled in a Bachelor of Biotechnology or a Bachelor of Engineering degree to transfer to this combined degree program. The eligibility criteria used to assess transfer applications are in line with those used by the Universities Admissions Centre to assess non-current school leaver applicants. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.
Local students
Entry to individual engineering majors is subject to ATAR requirements.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course duration is six years full time, 12 years part time, or seven years full time with honours.

Full-time attendance involves approximately 24 hours each week at the University, which allows a full stage of the course to be completed in one semester. Part-time attendance involves approximately 12 hours each week at the University, which allows a full stage to be completed in one year. It is expected that employers will release part-time students for at least one half-day a week for attendance at classes.

Course structure
The program comprises a total of 252 credit points, made up of 174 credit points relating to the Bachelor of Biomedical Science, 78 credit points relating to the Bachelor of Engineering Practice, and 78 credit points relating to the Bachelor of Biotechnology.

The engineering component of the course is made up of subjects selected from the engineering core, the engineering practice program and the engineering fields of practice (majors).

The biotechnology component represents a specific biotechnology strand. There is an emphasis on DNA technologies and applications, and industrial aspects of biotechnology. Students attain a high level of competence in microbiology and biochemistry, and learn to design products involving the application of biotechnology in product manufacturing.

Graduation from the biotechnology component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Biotechnology prior to completion of the engineering component of the combined degree must apply for transfer to the Bachelor of Biotechnology (C10172) (see page 215) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the engineering component of the combined degree prior to completion of the biotechnology component they must apply for transfer to the Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) single degree program where they must complete all requirements for the stand-alone single degree version.

Further, students wishing to graduate from the engineering component of the combined degree prior to completion of the biotechnology component must have completed at least 60 credit points of biotechnology subjects (STM90274).

Industrial training/professional practice
The Diploma in Engineering Practice requires the completion of two six-month internships and the engineering practice program.

Level of award
The Bachelor of Engineering Diploma in Engineering Practice may be awarded with first or second class honours for meritorious performance in the course as a whole.

Honours
An honours program in biotechnology (C09022) (see page 113) is available, which involves an extra year of full-time study. The honours program is designed to introduce students to more advanced coursework and to research work in biotechnology. It allows selected students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
The Bachelor of Engineering is accredited by Engineers Australia (under the Washington Accord the degree is internationally recognised by countries including the UK, USA, Hong Kong China, Malaysia, Korea, Japan, Ireland, New Zealand, Canada, Chinese Taipei, Russia, Singapore, South Africa and Turkey). Depending on the disciplines chosen, students may also be eligible for entry to other relevant professional associations.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10115v7 Bachelor of Biomedical Science
Award(s): Bachelor of Biomedical Science [BBiomedSc]
UAC code: 697040
CRICOS code: 02680D
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
This course provides an in-depth understanding of how the body works at the cellular level, what causes disease and the techniques of laboratory diagnosis of disease, including the expanding area of molecular-based diagnostic techniques. Students gain the underpinning knowledge and lab skills required to participate in research aimed at the prevention or treatment of disease.

This course provides a strong professional and industry focus. With extensive theoretical knowledge and advanced laboratory skills in medical laboratory science, students obtain a solid background in the biological/medical sciences and practical experimentation.

Career options
Career options include positions in diagnostic medical laboratories, pharmaceutical, biomedical and biotechnology industries. Students may pursue a career in biomedical research in hospitals or other research institutes. Biomedical science also provides excellent preparation for entry into graduate medical degrees.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; English; and at least one science subject.
HSC Mathematics Extension 1 and Chemistry are recommended.
Course duration and attendance

Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus.

Students may also be able to complete the course in part-time mode, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

Course structure

The course comprises a total of 144 credit points. There is choice within the core subjects, enabling students to focus on a particular theme or area of expertise. The elective subjects enable students to increase their expertise in the biomedical science area or in other areas of science or other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects.

Students must satisfactorily complete all core subjects and the required number of credit points of elective/second major subjects for award of the degree.

Course completion requirements

STM90680 Foundation stream (Life and Environmental Sciences) 48cp
STM90684 Core subjects (Medical and Molecular Biology) 48cp
91500 Histology 6cp
CBK90582 Elective 4 6cp
Select 36 credit points from the following options: 36cp
91129 Transfusion Science 6cp
91335 Molecular Biology 2 6cp
91338 Clinical Bacteriology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91345 Biochemistry, Genes and Disease 6cp
91358 Advanced Haematology 6cp
91359 Advanced Immunology 6cp
91402 Anatomical Pathology 6cp
91352 Parasitology 6cp
Total 144cp

Course program

The program shown assumes full-time attendance, commencing in Autumn semester.

Year 1

Autumn semester

65111 Chemistry 1 6cp
91107 The Biosphere 6cp
91161 Cell Biology and Genetics 6cp
33116 Statistical Design and Analysis 6cp

Spring semester

65212 Chemistry 2 6cp
91123 Biocomplexity 6cp
91400 Human Anatomy and Physiology 6cp
68041 Physical Aspects of Nature 6cp

Year 2

Autumn semester

91314 General Microbiology 6cp
91320 Metabolic Biochemistry 6cp
91500 Histology 6cp
CBK90579 Elective 3 6cp

Spring semester

91132 Molecular Biology 1 6cp
CBK90580 Elective 2 6cp
Select 12 credit points from the following options: 12cp
91326 Analytical Biochemistry 6cp
91330 Epidemiology and Public Health Microbiology 6cp
91401 Introductory Haematology and Immunology 6cp

Honours

The Bachelor of Science (Honours) in Biomedical Science (C09023) (see page 114) is available to eligible students with an additional one year of full-time study.

Professional recognition

The course is recognised by the Australian Institute of Medical Scientists (AIMS) (in order to secure AIMS accreditation, students must select 91402 Anatomical Pathology as one of their options).

Other information

Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10122v10 Bachelor of Nursing

Award(s): Bachelor of Nursing [BN]
UAC code: 606000 (FT Kuring-gai), 606001 (PT Kuring-gai), 606002 (FT City), 606003 [Accelerated Program: Enrolled Nurse 2004 to 2008], 606004 [Accelerated Program: Enrolled Nurse 2009 onwards], 606005 [Accelerated Program: Graduate Entry]
CRICOS code: 019877B
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City and Kuring-gai campuses

Note(s)

Students admitted to the Bachelor of Nursing (standard program) before 2010 should refer to the course description in the 2009 handbook.

Students admitted to the Bachelor of Nursing (accelerated program) before 2011 should refer to the course description in the 2010 handbook.

Overview

The Bachelor of Nursing is designed to prepare students for the role of the registered nurse. The course incorporates a range of nursing subjects as well as behavioural science, physical science, ethics and professional subjects relevant to contemporary nursing practice. Graduates of the course are capable of delivering a high standard of confident, safe and therapeutic nursing care in a variety of health care settings. They demonstrate nursing care that is patient-centred, informed and responsible.

Clinical learning is a key element of the course with clinical placements in health care settings occurring in every semester. Learning technologies such as simulation, which is undertaken within the faculty’s clinical practice laboratories, assist students in preparing for clinical practice. Across the course students develop an e-portfolio to showcase their abilities and facilitate career planning. In the third year of the course students are able to pursue an area of nursing interest by choosing a clinical specialty elective.
Course aims
The course aims to prepare graduates who are independent lifelong learners to be attuned to the needs of patients from diverse backgrounds; are patient-centred and value collaboration with patients and colleagues; seek evidence in the exercise of clinical judgment and safe practice; and act in a professional, compassionate and ethical manner. In addition, graduates are prepared to foster the development of nursing as a practice discipline and demonstrate leadership in health care.

Career options
Career options for registered nurses include working in diverse specialty areas such as community health, critical care, intensive care, aged care, mental health, operating theatres and paediatrics. Career progression opportunities include working as a clinical nurse consultant, clinical nurse specialist, nurse educator, nurse manager, nurse practitioner or rural and remote practice nurse.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The requirements specified above apply to the standard, three-year mode of the course. The accelerated program has the following requirements.

- Bachelor of Nursing Accelerated: Graduate Entry: applicants who have successfully completed an Australian (or overseas equivalent) bachelor's degree in health, human bioscience, or social science within eight years prior to entry are eligible to apply. Successful applicants are given advanced standing (four subjects = 24 credit points) for their previous studies and are able to complete the course in two years full time, inclusive of pre-semester and summer subjects. Successful completion of the four-week, pre-semester subject in January/February 2013 is required before proceeding to the Bachelor of Nursing: Accelerated Graduate Entry course.

- Bachelor of Nursing Accelerated: Enrolled Nurse Certificate entry (graduates between 2004 to 2008): applicants must have completed the TAFE Certificate IV in Nursing (Enrolled Nurse) and have commenced their studies between 2003 and 2007. Hospital-trained enrolled nurses are not eligible for the accelerated course. Successful applicants are given advanced standing (five subjects = 30 credit points) for their previous studies and are able to complete the course in two years full time inclusive of pre-semester and summer subjects.

- Bachelor of Nursing Accelerated: Enrolled Nurse Certificate or Diploma entry (graduates from 2009): applicants must have completed the TAFE Certificate IV in Nursing (Enrolled/Division 2 Nursing) or the TAFE Diploma/Advanced Diploma of Nursing (Enrolled/Division 2 Nursing) and commenced their TAFE studies in or after 2008. Hospital-trained enrolled nurses are not eligible for the accelerated course. Successful applicants are given advanced standing (eight subjects = 48 credit points) for their previous studies and are able to complete the course in two years full time with no pre-semester or summer schools.

As part of its duty of care to patients and clients receiving health care in NSW, anyone who works in a NSW public health facility must first undergo a criminal record check. You must provide UTS with either evidence that a criminal record check has been conducted on you in your country, or a statutory declaration that you have no criminal record in your country of residence or in any country you have resided in. Participation in screening and vaccination against infectious diseases are prerequisites for students undertaking clinical placements in health facilities. Further information is available from: www.nmh.uts.edu.au/students/current/practical-experience/requirements.html

Non-current school leavers are strongly advised to submit a personal statement directly to UTS by 30 November 2012. Further information is available from: www.undergraduate.uts.edu.au/apply

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP C.

Eligibility for admission does not guarantee offer of a place.

Local students
The UTS Year 12 Bonus Scheme awards bonus points to Australian high school applicants based on performance in HSC subjects that are relevant to the course applied for. Further details are available at: www.undergraduate.uts.edu.au/bonuspoints

In addition, current school leaver applicants who have met UTS matriculation with an ATAR of at least 69.00 and have B Nursing Kuring-gai campus full time (606000) as a first preference may be eligible for bonus marks on the basis of an interview. Marks are allocated for motivation, HSC marks in English and science, leadership and community service. Eligible applicants are contacted by telephone in early January.

International students
Applicants to the standard three-year course who have successfully completed a recognised pathway program in Australia can also apply. Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Entry to the Bachelor of Nursing at City campus (606002) is very competitive; applicants are encouraged to also include a preference for the Bachelor of Nursing at Kuring-gai campus (606000).

The TAFE Certificate IV in Nursing (Enrolled Nurse) and work experience do not satisfy the University's English proficiency requirements.

Assumed knowledge
Any two units of English.

Any two units of science and any two units of mathematics are recommended.

Course duration and attendance
The Bachelor of Nursing is offered at Kuring-gai campus on a full-time basis over three years and a part-time basis over six years, and at City campus on a full-time basis over three years.

The Accelerated Program: Graduate Entry is offered at Kuring-gai campus on a full-time basis over two years and a part-time basis over four years including a pre-semester school in February at commencement and Summer session.

The Accelerated Program: Enrolled Nurse is offered at Kuring-gai campus on a full-time basis over two years and a part-time basis over four years including Summer session.

Course structure
The course comprises 144 credit points, made up of nursing theory, science and clinical practice in a range of health facilities. Full-time students study four subjects per semester and part-time students study two subjects per semester.

Industrial training/professional practice
This course includes extensive nursing practice, which is a compulsory component. Students undertake nursing professional experience in a variety healthcare and community settings. Clinical placements occur in blocks each semester and are in addition to time spent in the nursing clinical practice laboratories that simulate the clinical environment. The placements involve morning and evening shifts and in the final year some night duty may occur. The final year of the program has prolonged periods of clinical experience.


The policy should be read in full as it outlines students’ obligation for screening and immunisation against certain infectious diseases prior to commencing their clinical placement. Students are asked to provide evidence of their immunity or vaccination status, and screening for tuberculosis (TB) status may also be required prior to or at the time of commencement of the first clinical placement. Students should be aware that if they do not meet the requirements of the policy they cannot commence the placement and as a result are not able to complete the course.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are also required to undertake a National Criminal Record Check and obtain a National Police Certificate. Further information is available at: www.health.nsw.gov.au/jobs/student_clearance/index.asp

Course completion requirements
Select one of the following: 144cp
STM90330 Standard entry (BN) 144cp
STM90331 Accelerated entry (BN) 144cp
Total 144cp

Course program
Programs are presented below for standard full-time and part-time attendance, as well as for the Accelerated, Enrolled Nurses and Accelerated, Graduate Entry programs.

Standard, full time

Year 1

Autumn semester
92313 Assessment and Therapeutics in Health Care 1 6cp
92327 Workshops for Practice Readiness 1 6cp
92326 Understanding the Person: Life Transitions 6cp
92320 Health and Society 6cp

Spring semester
92314 Assessment and Therapeutics in Health Care 2 6cp
92328 Workshops for Practice Readiness 2 6cp
92324 Professional Identity 6cp
91528 Health and Homeostasis 6cp

Year 2

Autumn or Spring semester
92323 Fundamentals of Mental Health Nursing 6cp
92315 Nursing Care of the Older Person 6cp
92322 Medical Surgical Nursing 6cp
92319 Family and Children's Nursing 6cp

Autumn semester
92317 Contemporary Indigenous Health and Wellbeing 6cp
91529 Pathophysiology and Pharmacology 1 6cp

Spring semester
92318 Evidence for Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 3

Autumn semester
92330 Complex Nursing Care: Medical Surgical 6cp
92316 Complex Nursing Care: Mental Health 6cp
92329 Accountability in Nursing Practice 6cp
91527 Pathophysiology and Pharmacology 3 6cp

Spring semester
92331 Integrated Nursing Concepts 6cp
92312 Integrated Nursing Practice 6cp
92325 Professionalism in Context 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
92336 Introduction to Specialty Practice: Palliative Care 6cp
92337 Introduction to Specialty Practice: Women’s Health 6cp
92338 Introduction to Specialty Practice: Australian Indigenous Health Care 6cp
92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp

Year 4

Autumn semester
92335 Nursing Care of the Older Person 6cp
92317 Contemporary Indigenous Health and Wellbeing 6cp

Spring semester
92319 Family and Children's Nursing 6cp
92318 Evidence for Nursing 6cp

Year 5

Autumn semester
92316 Complex Nursing Care: Mental Health 6cp
92329 Accountability in Nursing Practice 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
92336 Introduction to Specialty Practice: Palliative Care 6cp
92337 Introduction to Specialty Practice: Women’s Health 6cp
92338 Introduction to Specialty Practice: Australian Indigenous Health Care 6cp
92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp

Year 6

Autumn semester
91527 Pathophysiology and Pharmacology 3 6cp
92330 Complex Nursing Care: Medical Surgical 6cp

Spring semester
92331 Integrated Nursing Concepts 6cp
92312 Integrated Nursing Practice 6cp

Standard, part time

Year 1

Autumn semester
92326 Understanding the Person: Life Transitions 6cp
92320 Health and Society 6cp

Spring semester
92324 Professional Identity 6cp
91528 Health and Homeostasis 6cp

Year 2

Autumn semester
92313 Assessment and Therapeutics in Health Care 1 6cp
92327 Workshops for Practice Readiness 1 6cp

Spring semester
92314 Assessment and Therapeutics in Health Care 2 6cp
92328 Workshops for Practice Readiness 2 6cp

Year 3

Autumn semester
92315 Nursing Care of the Older Person 6cp
92317 Contemporary Indigenous Health and Wellbeing 6cp

Spring semester
92319 Family and Children’s Nursing 6cp
92318 Evidence for Nursing 6cp

Year 4

Autumn semester
92323 Fundamentals of Mental Health Nursing 6cp
91529 Pathophysiology and Pharmacology 1 6cp

Spring semester
92322 Medical Surgical Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 5

Autumn semester
92316 Complex Nursing Care: Mental Health 6cp
92329 Accountability in Nursing Practice 6cp

Select 6 credit points of options 6cp

Spring semester
92325 Professionalism in Context 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
92336 Introduction to Specialty Practice: Palliative Care 6cp
92337 Introduction to Specialty Practice: Women’s Health 6cp
92338 Introduction to Specialty Practice: Australian Indigenous Health Care 6cp
92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp

Year 6

Autumn semester
91527 Pathophysiology and Pharmacology 3 6cp
92330 Complex Nursing Care: Medical Surgical 6cp

Spring semester
92331 Integrated Nursing Concepts 6cp
92312 Integrated Nursing Practice 6cp
Accelerated, graduate entry, full time

Year 1

Summer session
91528 Health and Homeostasis 6cp
92017 Health Assessment and Nursing Therapeutics 6cp

Autumn semester
92024 Medical Surgical Nursing (Graduate Entry) 6cp
91529 Pathophysiology and Pharmacology 1 6cp
92320 Health and Society 6cp
92326 Understanding the Person: Life Transitions 6cp

Spring session
92015 Fundamentals of Mental Health Nursing (Graduate Entry) 6cp
92016 Workshops for Practice Readiness (Graduate Entry) 6cp
92318 Evidence for Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 2

Summer session
92315 Nursing Care of the Older Person 6cp
92317 Contemporary Indigenous Health and Wellbeing 6cp

Autumn semester
91527 Pathophysiology and Pharmacology 3 6cp
92316 Complex Nursing Care: Mental Health 6cp
92329 Accountability in Nursing Practice 6cp
92330 Complex Nursing Care: Medical Surgical 6cp

Spring session
92312 Integrated Nursing Practice 6cp
92319 Family and Children’s Nursing 6cp
92331 Integrated Nursing Concepts 6cp
92325 Professionalism in Context 6cp

Accelerated, graduate entry, part time

Year 1

Summer session
91528 Health and Homeostasis 6cp
92017 Health Assessment and Nursing Therapeutics 6cp

Autumn semester
92024 Medical Surgical Nursing (Graduate Entry) 6cp
91529 Pathophysiology and Pharmacology 1 6cp
91529 Pathophysiology and Pharmacology 1 6cp
92320 Health and Society 6cp
92326 Understanding the Person: Life Transitions 6cp

Spring session
92015 Fundamentals of Mental Health Nursing (Graduate Entry) 6cp
92016 Workshops for Practice Readiness (Graduate Entry) 6cp
92318 Evidence for Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 2

Summer session
92315 Nursing Care of the Older Person 6cp
92317 Contemporary Indigenous Health and Wellbeing 6cp

Autumn semester
91527 Pathophysiology and Pharmacology 3 6cp
92316 Complex Nursing Care: Mental Health 6cp
92329 Accountability in Nursing Practice 6cp
92330 Complex Nursing Care: Medical Surgical 6cp

Spring session
92312 Integrated Nursing Practice 6cp
92319 Family and Children’s Nursing 6cp
92325 Professionalism in Context 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
92336 Introduction to Specialty Practice: Palliative Care 6cp
92337 Introduction to Specialty Practice: Women’s Health 6cp
92338 Introduction to Specialty Practice: Australian Indigenous Health Care 6cp
92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp

Accelerated, enrolled nurse entry 1, full time

Year 1

Summer session
91528 Health and Homeostasis 6cp
92014 Role Transition and Professional Identity 6cp
92322 Medical Surgical Nursing 6cp
91529 Pathophysiology and Pharmacology 1 6cp
92320 Health and Society 6cp
92326 Understanding the Person: Life Transitions 6cp

Spring session
92025 Fundamentals of Mental Health Nursing (Enrolled Nurse Entry 1) 6cp
92318 Evidence for Nursing 6cp
92319 Family and Children’s Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 2

Summer session
92328 Health and Homeostasis 6cp
92331 Integrated Nursing Concepts 6cp
92325 Professionalism in Context 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
92336 Introduction to Specialty Practice: Palliative Care 6cp
92337 Introduction to Specialty Practice: Women’s Health 6cp
92338 Introduction to Specialty Practice: Australian Indigenous Health Care 6cp
92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp

Accelerated, enrolled nurse entry 1, part time

Year 1

Summer session
91528 Health and Homeostasis 6cp
92014 Role Transition and Professional Identity 6cp
91529 Pathophysiology and Pharmacology 1 6cp
92320 Health and Society 6cp
92326 Understanding the Person: Life Transitions 6cp

Autumn semester
92015 Fundamentals of Mental Health Nursing (Graduate Entry) 6cp
92016 Workshops for Practice Readiness (Graduate Entry) 6cp
92318 Evidence for Nursing 6cp
91530 Pathophysiology and Pharmacology 2 6cp

Year 2

Summer session
92315 Nursing Care of the Older Person 6cp
92319 Family and Children’s Nursing 6cp
92325 Professionalism in Context 6cp

Select 6 credit points from the following options: 6cp
92332 Introduction to Specialty Practice: Community Health Nursing 6cp
92333 Introduction to Specialty Practice: Critical Care Nursing 6cp
92334 Introduction to Specialty Practice: Family and Child Health Nursing 6cp
92335 Introduction to Specialty Practice: Mental Health Nursing 6cp
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92339 Introduction to Specialty Practice: Aged Care Nursing 6cp
92340 Introduction to Specialty Practice: Paediatric Nursing 6cp
92341 Introduction to Specialty Practice: Perioperative Nursing 6cp
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<td>Complex Nursing Care: Medical Surgical</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring semester</td>
<td>92317</td>
<td>Contemporary Indigenous Health and Wellbeing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92318</td>
<td>Evidence for Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92331</td>
<td>Integrated Nursing Concepts</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92325</td>
<td>Professionalism in Context</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92332</td>
<td>Introduction to Specialty Practice: Critical Care Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92333</td>
<td>Introduction to Specialty Practice: Critical Care Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92334</td>
<td>Introduction to Specialty Practice: Family and Child Health Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92335</td>
<td>Introduction to Specialty Practice: Mental Health Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92336</td>
<td>Introduction to Specialty Practice: Palliative Care</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92337</td>
<td>Introduction to Specialty Practice: Women’s Health</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92338</td>
<td>Introduction to Specialty Practice: Australian Indigenous Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92339</td>
<td>Introduction to Specialty Practice: Aged Care Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92340</td>
<td>Introduction to Specialty Practice: Paediatric Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>92341</td>
<td>Introduction to Specialty Practice: Perioperative Nursing</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Accelerated, enrolled nurse entry 2, part time

| Year 1        |             |                                                   |               |
|               | 92014       | Role Transition and Professional Identity        | 6cp           |
|               | 91529       | Pathophysiology and Pharmacology 1                | 6cp           |
| Spring semester| 91530      | Pathophysiology and Pharmacology 2                | 6cp           |
|               | 92317       | Contemporary Indigenous Health and Wellbeing      | 6cp           |
| Year 2        |             |                                                   |               |
|               | 92316       | Complex Nursing Care: Mental Health               | 6cp           |
|               | 91527       | Pathophysiology and Pharmacology 3                | 6cp           |
| Spring semester| 92325      | Professionalism in Context                        | 6cp           |
|               | 92312       | Integrated Nursing Practice                       | 6cp           |
|               | 92331       | Integrated Nursing Concepts                        | 6cp           |
| Honours       |             |                                                   |               |

Professional recognition

Nursing and Midwifery Board of Australia. See the faculty rules (see page 74) for more information.

Other information

Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au
C10123v6 Bachelor of Nursing Bachelor of Arts in International Studies

Award(s): Bachelor of Nursing (BN) Bachelor of Arts in International Studies (BA)
UAC code: 69150
CRICOS code: 026198M
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Note(s)
Students admitted to the Bachelor of Nursing Bachelor of Arts in International Studies before 2010 should refer to the course description in the 2009 handbook.

Overview
The Bachelor of Nursing Bachelor of Arts in International Studies combines preparation for the role of the registered nurse with immersion in another language and culture, enhancing professional education and career options.

The course offers all the benefits of the UTS Bachelor of Nursing, including clinical placements every semester, use of state-of-the-art facilities, selection of a clinical elective in the final year and development of an e-portfolio. In addition, students gain specific skills in their chosen language and culture and become more aware of the need for intercultural sensitivities, not only through studying another language and culture, but also by living in another country in the fourth year of the course.

Career options
Career options for registered nurses include working in diverse speciality areas such as community health, critical care, intensive care, aged care, mental health, operating theatres and paediatrics. Career progression opportunities include working as a clinical nurse consultant, clinical nurse specialist, nurse educator, nurse manager, nurse practitioner or rural and remote practice nurse. Career options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Nursing (C10122) (see page 173). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Any two units of English (nursing component). There are no prior language requirements (international studies component).
Any two units of science and any two units of mathematics are recommended (nursing component).

External articulation
UTS offers an accelerated Bachelor of Nursing program to students who have completed the TAFE Certificate IV in Enrolled Nursing, and to students who have completed a degree in another discipline within the past seven years. Enrolled nurses receive 36 credit points of exemption and graduates receive 30 credit points of exemption. Applicants must have completed their qualification by December of the previous year to be eligible for the accelerated program. Spaces are limited in these accelerated programs and offers are based on competition.

Course duration and attendance
The course duration is five years of full-time study. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students are required to complete 240 credit points of study comprising 144 credit points in nursing and 96 credit points in international studies. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
The Bachelor of Nursing includes extensive clinical practice, which is a compulsory component of the course, commencing in the first semester. Students may be required to complete clinical practice during the semester break period.

Course completion requirements
CBK90005 Country major choice 96cp
Select one of the following: 9869900 STM90030 Standard entry (BN) 144cp
STM90031 Accelerated entry (BN) 144cp
Total 240cp

Course program
The example programs shown are for a standard-entry student who has chosen Germany as the International Studies major; and for an accelerated program graduate-entry student who has chosen Spain as the International Studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Standard, full time
Year 1

Autumn semester
92313 Assessment and Therapeutics in Health Care 1 6cp
92327 Workshops for Practice Readiness 1 6cp
92326 Understanding the Person: Life Transitions 6cp
92320 Health and Society 6cp

Spring semester
92314 Assessment and Therapeutics in Health Care 2 6cp
92324 Professional Identity 6cp
91528 Health and Homeostasis 6cp
92328 Workshops for Practice Readiness 2 6cp

Year 2

Autumn semester
92315 Nursing Care of the Older Person 6cp
92317 Contemporary Indigenous Health and Wellbeing 6cp
97601 German Language and Culture 1 8cp
976001 Foundations in International Studies 8cp

Spring semester
97602 German Language and Culture 2 8cp
92319 Family and Children’s Nursing 6cp
92318 Evidence for Nursing 6cp
C10124v6 Bachelor of Laws

Award(s): Bachelor of Laws (LLB)
UAC code: 60400 [FT], 60401 [PT]
CRICOS code: 01361G
Commonwealth-supported place?: Yes
Load credit points: 192
Course EFTSL: 4
Location: City campus

Overview
This course teaches students foundational knowledge and skills in law and its practice. UTS: Law graduates are increasingly in demand in the legal profession and the business sector in a wide range of roles and responsibilities. Today’s law graduates are called upon to advise and counsel parties, act as negotiators, manage project teams and resolve disputes.

The program provides full or part-time study for students wishing to obtain a professional legal qualification that satisfies the requirements for admission as a lawyer.

Students have the opportunity to engage in deeper study in the law through undertaking a number of law options and incorporate a broad variety of other disciplines by enrolling in options from other faculties.

Career options
Career options include lawyer or legal policy adviser within a government or corporate department, private law firm or community law centre, or negotiating treaties or work in legislation drafting with the Attorney-General’s Department.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Any two units of English.

Credit recognition
Students who have already completed a degree in another discipline may apply for exemption from 48 credit points of general law electives. Details about applying for credit recognition can be found in undergraduate course information (see page 96).

Course duration and attendance
The course duration is four years of full-time or six-and-a-half years of part-time study. Full-time students have approximately 10–14.5 contact hours per week and part-time students have approximately 7–9.5 contact hours per week. Timetable constraints may require attendance at both day and evening classes.

Course structure
The course comprises a total of 192 credit points. The study components for course completion are:

- 102 credit points of compulsory core law subjects
- 42 credit points of law options, and
- 48 credit points of general electives that include subjects offered by other faculties of the University (for students who have not received exemption on the basis of a recognised prior degree), or
- either 18 credit points of practical legal training (PLT) subjects and an additional 30 credit points of law options.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure. For a current listing of subjects in each course, refer to the study package directory.

Honours
The Bachelor of Nursing (Honours) (C09018) (see page 111) is available to eligible students with an additional year of full-time study or two years of part-time study.

Professional recognition
Nursing and Midwifery Board of Australia. See the faculty rules (see page 74) for more information.

Other information
Further information is available from the UTS Student Centre on:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
or +61 2 9514 5021
email nmh@uts.edu.au
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au
www.internationalstudies.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.
Students enrolled in the Bachelor of Laws have the option of completing the PLT program within their undergraduate law degree. Alternatively, students who wish to practise as lawyers in NSW can complete their Bachelor of Laws by including further law electives and then undertake a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90688 Core subjects</td>
<td></td>
<td>102cp</td>
</tr>
<tr>
<td>CBK90383 Options</td>
<td></td>
<td>42cp</td>
</tr>
<tr>
<td>CBK90391 Options</td>
<td></td>
<td>48cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>192cp</td>
</tr>
</tbody>
</table>

Course diagram

<table>
<thead>
<tr>
<th>Core subjects</th>
<th>14 core subjects</th>
<th>Total 102 credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law options</td>
<td>7 x 6-credit-point subjects</td>
<td>Total 42 credit points</td>
</tr>
<tr>
<td>Law or non-law options (including PLT)</td>
<td>48 credit points</td>
<td></td>
</tr>
<tr>
<td>Law or non-law options</td>
<td>8 x 6-credit-point subjects</td>
<td>48 credit points</td>
</tr>
<tr>
<td>or</td>
<td>Law or non-law options</td>
<td>5 x 6-credit-point subjects</td>
</tr>
<tr>
<td>Practical legal training</td>
<td>3 x 6-credit-point subjects</td>
<td>18 credit points</td>
</tr>
</tbody>
</table>

Course program
The two programs below show the standard programs of study for a full-time student and a part-time student.

The 90 credit points of optional subjects are made up of:
- 42 credit points of law options from CBK90383, and
- 48 credit points of general UTS electives from CBK90300, or 30 credit points of general UTS electives from CBK90390 and 18 credit points of PLT subjects from STM90792.

Full time

Year 1
- **Autumn semester**
  - 70115 Perspectives on Law 8cp
  - 70120 Legal Method and Research 6cp
  - 70211 Contracts 8cp

- **Spring semester**
  - 70218 Criminal Law 8cp
  - 70311 Torts 8cp
  - 70317 Real Property 8cp

Year 2
- **Autumn semester**
  - 70616 Australian Constitutional Law 8cp
  - 70517 Equity and Trusts 8cp
  - 70417 Corporate Law 8cp

- **Spring semester**
  - 70327 Commercial Law 6cp
  - 70617 Administrative Law 6cp
  - 70717 Evidence and Criminal Procedure 6cp
  - Select 6 credit points of electives 6cp

Year 3
- **Autumn semester**
  - Select 24 credit points of options 24cp

- **Spring semester**
  - Select 24 credit points of options 24cp

Year 4
- **Autumn semester**
  - 75421 Civil Litigation 6cp
  - 75420 Ethics and Professional Conduct 6cp
  - Select 12 credit points of options 12cp

- **Spring semester**
  - 75411 Practical Experience 0cp
  - 75422 Transactional Practice 6cp
  - 75424 Legal and Professional Skills 6cp
  - 75423 Litigation and Estate Practice 6cp
  - Select 6 credit points of options 6cp

Part time

Year 1
- **Autumn semester**
  - 70115 Perspectives on Law 8cp
  - 70120 Legal Method and Research 6cp

- **Spring semester**
  - 70311 Torts 8cp
  - 70218 Criminal Law 8cp

Year 2
- **Autumn semester**
  - 70211 Contracts 8cp
  - 70616 Australian Constitutional Law 8cp

- **Spring semester**
  - 70327 Commercial Law 6cp
  - 70317 Real Property 8cp

Year 3
- **Autumn semester**
  - 70417 Corporate Law 8cp
  - 70517 Equity and Trusts 8cp

- **Spring semester**
  - 70617 Administrative Law 8cp
  - 70717 Evidence and Criminal Procedure 6cp

Year 4
- **Autumn semester**
  - Select 18 credit points of options 18cp

- **Spring semester**
  - Select 18 credit points of options 18cp

Year 5
- **Autumn semester**
  - Select 12 credit points of options 12cp

- **Spring semester**
  - Select 18 credit points of options 18cp

Year 6
- **Autumn semester**
  - 75421 Civil Litigation 6cp
  - 75420 Ethics and Professional Conduct 6cp

- **Spring semester**
  - 75424 Legal and Professional Skills 6cp
  - 75422 Transactional Practice 6cp

Year 7
- **Autumn semester**
  - 75411 Practical Experience 0cp
  - 75423 Litigation and Estate Practice 6cp
  - Select 6 credit points of options 6cp
Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 97).

Professional recognition
This course satisfies the academic requirements for admission to the Supreme Court of NSW as a lawyer. Students wishing to obtain full recognition as graduate lawyers have the option of completing the PLT program, also offered by UTS: Law.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10125v8 Bachelor of Business Bachelor of Laws
Award(s): Bachelor of Business (BBus) Bachelor of Laws (LLB)
UAC code: 609010 CRICOS code: 008756B Commonwealth-supported place?: Yes
Load credit points: 240 Course EFTSL: 5 Location: City campus

Overview
This combined program is offered jointly by UTS: Law and UTS: Business. One of the most popular combined degrees offered by UTS: Law, the Bachelor of Business Bachelor of Laws combines foundational understanding of law and important aspects of business with a wide choice of business majors and sub-majors, with real-world experience to make students work-ready upon graduation.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the academic requirements only for admission as a lawyer.

The degree seeks to provide students with the knowledge, competencies and values necessary to develop critical, analytical and evaluative skills essential for a dynamic and rewarding career in business and law.

Career options
Career options include legal adviser within a government department, lawyer in corporate and commercial sector, mergers and acquisitions, property, and intellectual property, as well as management consultant or professional in the chosen business specialisation (such as an accountant or marketing executive).

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Proficiency in English and mathematics.

Course duration and attendance
The course duration is five years of full-time study. The law component requires attendance of 10-15 hours of lectures a week and timetable constraints may require attendance at both daytime and evening classes.

Course structure
The course comprises a total of 240 credit points, allowing students to graduate with the separate degrees of Bachelor of Business and Bachelor of Laws. The study components for course completion are as follows.

The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options.

The business component of 96 credit points comprises:
- 48 credit points of core business subjects, and
- 48 credit points of subjects within a business major.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure. For a current listing of subjects in each course refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
STM90273 Core subjects (Business) 48cp STM90691 Law stream 144cp CBK90169 Major choice (Business) 48cp Total 240cp

Course diagram

<table>
<thead>
<tr>
<th>Bachelor of Laws</th>
<th>Bachelor of Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 core subjects</td>
<td>8 core subjects</td>
</tr>
<tr>
<td>Total 102 credit points</td>
<td>Total 48 credit points</td>
</tr>
<tr>
<td>Law options</td>
<td></td>
</tr>
<tr>
<td>7 x 6-credit-point subjects</td>
<td></td>
</tr>
<tr>
<td>Total 42 credit points</td>
<td></td>
</tr>
<tr>
<td>Business major</td>
<td></td>
</tr>
<tr>
<td>8 x 6-credit-point subjects</td>
<td></td>
</tr>
<tr>
<td>Total 48 credit points</td>
<td></td>
</tr>
</tbody>
</table>

Course program
The standard program shown is for a full-time student who has chosen the Human Resources Management major in the Bachelor of Business and law options.

All options shown are law options and are to be drawn from those on offer in CBK90383.

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>21129 Managing People and Organisations 6cp</td>
<td>24108 Marketing Foundations 6cp</td>
</tr>
<tr>
<td>22107 Accounting for Business Decisions A 6cp</td>
<td>70115 Perspectives on Law 8cp</td>
</tr>
<tr>
<td>23115 Economics for Business 6cp</td>
<td>70120 Legal Method and Research 6cp</td>
</tr>
<tr>
<td>26100 Integrating Business Perspectives 6cp</td>
<td></td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Autumn or Spring semester</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>22207 Accounting for Business Decisions B 6cp</td>
<td>26134 Business Statistics 6cp</td>
</tr>
<tr>
<td></td>
<td>70311 Torts 8cp</td>
</tr>
<tr>
<td></td>
<td>70218 Criminal Law 8cp</td>
</tr>
</tbody>
</table>
The Bachelor of Science Bachelor of Laws is offered jointly by UTS: Science and Law and UTS: Science. The law is of special importance in many areas of science, including research, industrial and commercial enterprise.

### Levels of award

The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

### Professional recognition

This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

### Other information

Further information is available from:

- UTS Student Centre
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

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**C10126v6 Bachelor of Science Bachelor of Laws**

**Award(s):** Bachelor of Science in [name of Science major] [BSc] Bachelor of Laws (LLB)

- UAC code: 609060
- CRICOS code: 00947E
- Commonwealth-supported place?: Yes
- Load credit points: 240
- Course EFTSL: 5
- Location: City campus

**Overview**

The Bachelor of Science Bachelor of Laws is offered jointly by UTS: Law and UTS: Science. The law is of special importance in many areas of science, including research, industrial and commercial enterprise.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the academic requirements only for admission as a lawyer together with a science specialisation.

The course addresses the increasing need for scientific expertise among lawyers. Graduates develop critical and analytical skills necessary when making decisions as they understand the complex links between science and law, increasing their employment prospects and career opportunities in both fields.

### Career options

Career options include lawyers in areas where strong scientific backgrounds are valued, such as conservation and resource management, climate change advisory roles, defence technologies, environmental pollution regulations, finance, human health, industrial and occupational health and safety, pharmaceutical and biotechnological R&D and scientific patents.

### Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

### International students

- Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Assumed knowledge

- English proficiency; Mathematics; and Science.

### Course duration and attendance

- The course duration is five years of full-time study. For students who undertake the Bachelor of Science (Honours) the course duration is six years of full-time study.
- The law component requires attendance at 10-15 hours of lectures a week and timetable constraints may require attendance at daytime and evening classes. The science component requires attendance of approximately 10 hours a week at the University.

### Course structure

The course comprises a total of 240 credit points and allows students to graduate with the separate degrees of Bachelor of Science (BSc) and Bachelor of Laws (LLB). The study components for course completion are as follows.

The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options.

The science component comprises 96 credit points of core science subjects taken from one of 10 specified majors representing different science disciplines.

Graduation from the science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Science prior to completion of the law component of the combined degree must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, a student can graduate from the law component of the combined degree prior to completion of the science component, but if they wish to continue with the science component, they must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they need to complete all requirements for the stand-alone single degree version.

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182 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.
Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
STM90691 Law stream  144cp
CBK90585 Major choice (Science)  96cp
Total 240cp

Course program
The program shown is for a full-time student who has chosen one of the science majors and law options.
All options shown are law options and are to be drawn from those on offer in CBK90383.

List of majors
MAJ01079 Applied Chemistry  96cp
MAJ01080 Applied Physics  96cp
MAJ01085 Nanotechnology  96cp
MAJ01081 Biomedical Science  96cp
MAJ01114 Medical Science  96cp
MAJ01115 Biotechnology  96cp
MAJ01082 Environmental Biology  96cp
MAJ01113 Environmental Forensics  96cp
MAJ01112 Marine Biology  96cp
MAJ01116 Mathematics  96cp

Applied Chemistry major
Year 1
Autumn semester
70115 Perspectives on Law  8cp
70120 Legal Method and Research  6cp
33190 Mathematical Modelling for Science  6cp
65111 Chemistry 1  6cp
Spring semester
70311 Torts  8cp
70218 Criminal Law  8cp
33290 Statistics and Mathematics for Science  6cp
65212 Chemistry 2  6cp

Year 2
Autumn semester
70211 Contracts  8cp
70616 Australian Constitutional Law  8cp
68101 Foundations of Physics  6cp
Spring semester
70317 Real Property  8cp
70327 Commercial Law  6cp
68201 Physics in Action  6cp
65411 Inorganic Chemistry 1  6cp

Year 3
Autumn semester
70417 Corporate Law  8cp
70517 Equity and Trusts  8cp
65202 Organic Chemistry 1  6cp
Spring semester
70617 Administrative Law  8cp
65306 Analytical Chemistry 1  6cp
65508 Organic Chemistry 2  6cp
Select 6 credit points of options  6cp

Year 4
Autumn semester
65307 Physical Chemistry 1  6cp
65409 Analytical Chemistry 2  6cp
Select 6 credit points of options  6cp

Spring semester
70717 Evidence and Criminal Procedure  6cp
65606 Analytical Chemistry 3  6cp
65607 Physical Chemistry 2  6cp
Select 6 credit points of options  6cp

Year 5
Autumn semester
75421 Civil Litigation  6cp
75420 Ethics and Professional Conduct  6cp
65410 Chemical Safety and Legislation  6cp
65509 Inorganic Chemistry 2  6cp

Spring semester
Select 24 credit points of options  24cp

Applied Physics major
Year 1
Autumn semester
70115 Perspectives on Law  8cp
70120 Legal Method and Research  6cp
68101 Foundations of Physics  6cp

Spring semester
70317 Real Property  8cp
70327 Commercial Law  6cp
68315 Imaging Science  6cp
68413 Quantum Physics  6cp
Select 6 credit points of options  6cp

Year 2
Autumn semester
70211 Contracts  8cp
70616 Australian Constitutional Law  8cp
68101 Foundations of Physics  6cp

Spring semester
70317 Real Property  8cp
70327 Commercial Law  6cp
68201 Physics in Action  6cp
68070 Introduction to Materials  6cp

Year 3
Autumn semester
70417 Corporate Law  8cp
70517 Equity and Trusts  8cp
33360 Mathematics for Physical Science  6cp

Spring semester
70617 Administrative Law  8cp
68315 Imaging Science  6cp
68413 Quantum Physics  6cp
Select 6 credit points of options  6cp

Year 4
Autumn semester
68075 Nanomaterials  6cp
68412 Energy Science and Technology  6cp
Select 6 credit points of options  6cp
Spring semester
70717 Evidence and Criminal Procedure 6cp
Select two subjects from the following: 12cp
68320 Scanning Probe and Electron Microscopy 6cp
68414 Advanced Mechanics 6cp
68415 Measurement and Analysis of Physical Processes 6cp
68513 Optics and Nanophotonics 6cp
Select 6 credit points of options 6cp

Year 5
Autumn semester
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
Select two subjects from the following: 12cp
91335 Molecular Biology 2 6cp
91338 Clinical Bacteriology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91358 Advanced Haematology 6cp
91359 Advanced Immunology 6cp

Spring semester
Select 24 credit points of options 24cp

Biotechnology major
Year 1
Autumn semester
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp
91161 Cell Biology and Genetics 6cp
65111 Chemistry 1 6cp

Spring semester
70311 Torts 8cp
70218 Criminal Law 8cp
91400 Human Anatomy and Physiology 6cp
65212 Chemistry 2 6cp

Year 2
Autumn semester
70211 Contracts 8cp
70616 Australian Constitutional Law 8cp
91314 General Microbiology 6cp

Spring semester
70317 Real Property 8cp
70327 Commercial Law 6cp
91330 Epidemiology and Public Health Microbiology 6cp
91401 Introductory Haematology and Immunology 6cp

Year 3
Autumn semester
70417 Corporate Law 8cp
70517 Equity and Trusts 8cp
91320 Metabolic Biochemistry 6cp

Spring semester
70617 Administrative Law 8cp
91132 Molecular Biology 1 6cp
91326 Analytical Biochemistry 6cp
Select 6 credit points of options 6cp

Year 4
Autumn semester
91142 Biotechnology 6cp
Select 12 credit points of options 12cp

Spring semester
70717 Evidence and Criminal Procedure 6cp
91368 Bioreactors and Bioprocessing 6cp
91144 Plant Biotechnology 6cp
Select one of the following: 6cp
91129 Transfusion Science 6cp
91352 Parasitology 6cp
91345 Biochemistry, Genes and Disease 6cp
91402 Anatomical Pathology 6cp

Year 5
Autumn semester
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
Select one of the following: 6cp
91359 Advanced Immunology 6cp
91335 Molecular Biology 2 6cp

Spring semester
Select 24 credit points of options 24cp
**Environmental Biology major**

### Year 1

#### Autumn semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 91107 The Biosphere 6cp
- 65111 Chemistry 1 6cp

#### Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 91123 Biocomplexity 6cp
- 65212 Chemistry 2 6cp

### Year 2

#### Autumn semester
- 70211 Contracts 8cp
- 70616 Australian Constitutional Law 8cp
- 91154 Ecology 6cp

#### Spring semester
- 70317 Real Property 8cp
- 70327 Commercial Law 6cp
- 91159 Environmental Forensics 6cp
- 65621 Environmental Chemistry 6cp

### Year 3

#### Autumn semester
- 70417 Corporate Law 8cp
- 70517 Equity and Trusts 8cp
- 91110 Experimental Design and Sampling 6cp

#### Spring semester
- 70617 Administrative Law 8cp
- 91145 Environmental Protection and Management 6cp
  - Select one of the following: 6cp
    - 91370 Semi-arid Ecology 6cp
    - 91371 Forest and Mountain Ecology 6cp
    - 91163 Alpine and Lowland Ecology 6cp
  - Select 6 credit points of options 6cp

### Year 4

#### Autumn semester
- 91161 Cell Biology and Genetics 6cp
- 33116 Statistical Design and Analysis 6cp
  - Select 6 credit points of options 6cp

#### Spring semester
- 70717 Evidence and Criminal Procedure 6cp
  - Select two subjects from the following: 12cp
    - 91155 Stream and Lake Assessment 6cp
    - 91370 Semi-arid Ecology 6cp
    - 91371 Forest and Mountain Ecology 6cp
    - 91163 Alpine and Lowland Ecology 6cp
  - Select 6 credit points of options 6cp

### Year 5

#### Autumn semester
- 75421 Civil Litigation 6cp
- 79004 Environmental Law and Science 6cp

#### Spring semester
- Select 24 credit points of options 24cp

**Environmental Forensics major**

### Year 1

#### Autumn semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 91107 The Biosphere 6cp
- 65111 Chemistry 1 6cp

#### Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 91123 Biocomplexity 6cp
- 65212 Chemistry 2 6cp

### Year 2

#### Autumn semester
- 70211 Contracts 8cp
- 70616 Australian Constitutional Law 8cp
- 91154 Ecology 6cp

#### Spring semester
- 70317 Real Property 8cp
- 70327 Commercial Law 6cp
- 91159 Environmental Forensics 6cp
- 65621 Environmental Chemistry 6cp

### Year 3

#### Autumn semester
- 70417 Corporate Law 8cp
- 70517 Equity and Trusts 8cp
- 91110 Experimental Design and Sampling 6cp

#### Spring semester
- 70617 Administrative Law 8cp
- 91145 Environmental Protection and Management 6cp
  - Select one of the following: 6cp
    - 91370 Semi-arid Ecology 6cp
    - 91371 Forest and Mountain Ecology 6cp
    - 65242 Principles of Forensic Science 6cp
    - 91163 Alpine and Lowland Ecology 6cp
  - Select 6 credit points of options 6cp

### Year 4

#### Autumn semester
- 91161 Cell Biology and Genetics 6cp
- 33116 Statistical Design and Analysis 6cp
  - Select 6 credit points of options 6cp

#### Spring semester
- 70717 Evidence and Criminal Procedure 6cp
- 79023 Environmental Forensic Law 6cp
  - Select 6 credit points from the following options: 6cp
    - 91155 Stream and Lake Assessment 6cp
    - 91370 Semi-arid Ecology 6cp
    - 91371 Forest and Mountain Ecology 6cp
    - 91163 Alpine and Lowland Ecology 6cp
  - Select 6 credit points of options 6cp

### Year 5

#### Autumn semester
- 75421 Civil Litigation 6cp
- 79420 Ethics and Professional Conduct 6cp
- 91121 Aquatic Ecology 6cp
- 79004 Environmental Law and Science 6cp

#### Spring semester
- Select 24 credit points of options 24cp

**Marine Biology major**

### Year 1

#### Autumn semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 91107 The Biosphere 6cp
- 65111 Chemistry 1 6cp

#### Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 91123 Biocomplexity 6cp
- 65212 Chemistry 2 6cp

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Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Year 2

#### Autumn semester
- 70211 Contracts 8cp
- 70616 Australian Constitutional Law 8cp
- 91154 Ecology 6cp

#### Spring semester
- 70317 Real Property 8cp
- 70327 Commercial Law 6cp
- 91157 Marine Communities 6cp
- 91270 Plant Physiology and Ecophysiology 6cp

### Year 3

#### Autumn semester
- 70417 Corporate Law 8cp
- 70110 Experimental Design and Sampling 6cp

#### Spring semester
- 70617 Administrative Law 8cp
- 91145 Environmental Protection and Management 6cp
- 91126 Coral Reef Ecosystems 6cp
- Select 12 credit points of options 12cp

### Year 4

#### Autumn semester
- 91161 Cell Biology and Genetics 6cp
- 33116 Statistical Design and Analysis 6cp
- 91309 Biodiversity Conservation 6cp

#### Spring semester
- 70717 Evidence and Criminal Procedure 6cp
- 91156 Marine Primary Producers 6cp
- Select 6 credit points of options 6cp

### Year 5

#### Autumn semester
- 75421 Civil Litigation 6cp
- 75420 Ethics and Professional Conduct 6cp
- 91188 Fisheries Resources 6cp

#### Spring semester
- Select one of the following: 6cp
  - 66513 Marine Geosciences 6cp
  - 91120 GIS and Remote Sensing 6cp

- Select 24 credit points of options 24cp

### Mathematics major

#### Year 1

#### Autumn semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp

#### Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 35102 Introduction to Analysis and Multivariable Calculus 6cp

#### Year 2

#### Autumn semester
- 70211 Contracts 8cp
- 70616 Australian Constitutional Law 8cp
- 35140 Introduction to Quantitative Management 6cp

#### Spring semester
- 70317 Real Property 8cp
- 70327 Commercial Law 6cp
- 35100 Introduction to Sample Surveys 6cp
- 35111 Applications of Discrete Mathematics 6cp

#### Year 3

#### Autumn semester
- 35241 Optimisation in Quantitative Management 6cp
- 70157 Equity and Trusts 8cp
- 35212 Computational Linear Algebra 6cp
- 35363 Stochastic Models 6cp

### Spring semester
- 70417 Corporate Law 8cp
- 35231 Differential Equations 6cp
- 35333 Regression Analysis 6cp

Select one subject from the following: 6cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp

Select 6 credit points of options 6cp

### Year 4

#### Autumn semester
- 70617 Administrative Law 8cp
- 35232 Advanced Calculus 6cp

Select two subjects from the following: 12cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35361 Stochastic Processes 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp
- 35322 Advanced Analysis 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp

Select 6 credit points of options 6cp

### Year 5

#### Autumn semester
- 75421 Civil Litigation 6cp
- 75420 Ethics and Professional Conduct 6cp

#### Spring semester
- Select 24 credit points of options 24cp

### Medical Science major

#### Year 1

#### Autumn semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry I 6cp

#### Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 91400 Human Anatomy and Physiology 6cp
- 65212 Chemistry 2 6cp

#### Year 2

#### Autumn semester
- 70211 Contracts 8cp
- 70616 Australian Constitutional Law 8cp
- 91314 General Microbiology 6cp

#### Spring semester
- 70317 Real Property 8cp
- 70327 Commercial Law 6cp
- 68041 Physical Aspects of Nature 6cp
- 91239 Human Pathophysiology 6cp
Year 3
Autumn semester
70417 Corporate Law  8cp
70517 Equity and Trusts  8cp
91703 Physiological Systems  6cp
Spring semester
70617 Administrative Law  8cp
91705 Medical Devices and Diagnostics  6cp
Select one subject from the following:  6cp
91332 Molecular Biology  8cp
91330 Epidemiology and Public Health Microbiology  6cp
91401 Introductory Haematology and Immunology  6cp
Select 6 credit points of options  6cp

Year 4
Autumn semester
91707 Pharmacology 1  6cp
91330 Metabolic Biochemistry  6cp
Select 6 credit points of options  6cp
Spring semester
70117 Evidence and Criminal Procedure  6cp
91708 Medical and Applied Physiology  6cp
91709 Pharmacology 2  6cp
Select 6 credit points of options  6cp

Year 5
Autumn semester
75421 Civil Litigation  6cp
75420 Ethics and Professional Conduct  6cp
91706 Neuroscience  6cp
Select one subject from the following:  6cp
91335 Molecular Biology 2  6cp
91338 Clinical Bacteriology  6cp
91344 Medical and Diagnostic Biochemistry  6cp
91358 Advanced Haematology  6cp
91359 Advanced Immunology  6cp
Spring semester
Select 24 credit points of options  24cp

Nanotechnology major
Year 1
Autumn semester
70115 Perspectives on Law  8cp
70120 Legal Method and Research  6cp
33190 Mathematical Modelling for Science  6cp
65111 Chemistry 1  6cp
Spring semester
70311 Torts  8cp
70218 Criminal Law  8cp
33290 Statistics and Mathematics for Science  6cp
65212 Chemistry 2  6cp

Year 2
Autumn semester
70211 Contracts  8cp
70616 Australian Constitutional Law  8cp
68101 Foundations of Physics  6cp
Spring semester
70317 Real Property  8cp
70327 Commercial Law  6cp
68201 Physics in Action  6cp
68070 Introduction to Materials  6cp

Year 3
Autumn semester
70417 Corporate Law  8cp
70517 Equity and Trusts  8cp
33360 Mathematics for Physical Science  6cp
Spring semester
70617 Administrative Law  8cp
68315 Imaging Science  6cp
68413 Quantum Physics  6cp
Select 6 credit points of options  6cp

Year 4
Autumn semester
68075 Nanomaterials  6cp
65307 Physical Chemistry 1  6cp
Select 6 credit points of options  6cp
Spring semester
70717 Evidence and Criminal Procedure  6cp
Select two subjects from the following:  12cp
67510 Surface Processes  6cp
68513 Optics and Nanophotonics  6cp
91140 BioNanotechnology  6cp
68320 Scanning Probe and Electron Microscopy  6cp
Select 6 credit points of options  6cp

Year 5
Autumn semester
75421 Civil Litigation  6cp
75420 Ethics and Professional Conduct  6cp
68075 Nanomaterials  6cp
Select 6 credit points of options  6cp
Spring semester
Select 24 credit points of options  24cp

Levels of award
The Bachelor of Laws is available with honours and requires candidates to complete the research thesis within the law option component.

Honours
The Bachelor of Science (Honours) is available in all disciplines as an additional year to meritorious students. It is designed to introduce students to research and more advanced coursework. It allows eligible students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students undertake the optional PLT component.

Depending on the science specialisation and subjects chosen, graduates may be eligible for admission to the relevant scientific professional organisation.

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10129v5 Bachelor of Laws Bachelor of Arts in International Studies
Award(s): Bachelor of Laws (LLB) Bachelor of Arts in International Studies (BA)
UAC code: 609070
CRICOS code: 026195C
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The Bachelor of Laws Bachelor of Arts in International Studies is offered jointly by UTS: Law and UTS: International Studies. The course is designed for students who wish to provide specialised legal services to international organisations and to satisfy the demand for lawyers who can act for foreign investors.

Career prospects are enhanced by international experience, making students more marketable to prospective employers both locally and internationally.

The course offers students the opportunity to gain an international perspective to their law studies. In developing language skills and undertaking overseas study in their fourth year, students are exposed
to expertise and skills to enable them to work internationally and have an in-depth understanding of cross-cultural legal issues.

**Career options**

Career options include legal policy adviser within a government department, lawyer in a commercial or corporate sector with international links. Graduates can work with international organisations such as the United Nations and opportunities also exist in foreign affairs.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Proficiency in English is assumed. There are no prior language requirements for the international studies program (see page 87).

**Course duration and attendance**

The course duration is five years of full-time study. The law component requires attendance of 10-15 hours of lectures a week and timetable constraints may require attendance at daytime and evening classes. Students spend two semesters of study at a university or other higher education institution in the country of their major.

**Course structure**

The course comprises a total of 240 credit points. The study components for course completion are as follows:

- The law component of 144 credit points is made up of:
  - 102 credit points of compulsory core law subjects, and
  - 42 credit points of law options.

- The international studies component comprises 96 credit points of international studies subjects.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.

For a current listing of subjects in each course refer to the study package directory.

**Overseas study**

Students spend their fourth year of study at a university overseas.

**Industrial training/practical experience**

To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

**Course completion requirements**

- STM90691 Law stream 144cp
- CBK90005 Country major choice 96cp
- Total 240cp

---

### Course diagram

<table>
<thead>
<tr>
<th>Bachelor of Laws</th>
<th>Bachelor of Arts in International Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 core subjects</td>
<td>4 x 8-credit-point language and culture subjects</td>
</tr>
<tr>
<td>Total 102 credit points</td>
<td>1 x 8-credit-point contemporary society subject</td>
</tr>
<tr>
<td></td>
<td>1 x 8-credit-point Foundations in International Studies subject</td>
</tr>
<tr>
<td></td>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Law options</th>
<th>In-country study</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x 6-credit-point subjects</td>
<td>Two semesters</td>
</tr>
<tr>
<td>Total 42 credit points</td>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

### Course program

The standard program shown is for a full-time student who has chosen the Germany major in the international studies component and law options.

All options shown are law options and are to be drawn from those on offer in CBK90383.

Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

#### Year 1

**Autumn semester**

- 70211 Contracts 8cp
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp

**Spring semester**

- 70218 Criminal Law 8cp
- 70311 Torts 8cp
- 70317 Real Property 8cp

#### Year 2

**Autumn semester**

- 70616 Australian Constitutional Law 8cp
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp

**Spring semester**

- 70327 Commercial Law 6cp
- 97602 German Language and Culture 2 8cp
- 70617 Administrative Law 8cp

#### Year 3

**Autumn semester**

- 70517 Equity and Trusts 8cp
- 97603 German Language and Culture 3 8cp
- 70417 Corporate Law 8cp

**Spring semester**

- 976421 Contemporary Germany 8cp
- 97604 German Language and Culture 4 8cp
- 70717 Evidence and Criminal Procedure 6cp

Select 6 credit points of options 6cp

#### Year 4

**Autumn semester**

- 977420 In-country Study 1: Germany 24cp

**Spring semester**

- 978420 In-country Study 2: Germany 24cp

#### Year 5

**Autumn semester**

- 75421 Civil Litigation 6cp
- 75420 Ethics and Professional Conduct 6cp

Select 12 credit points of options 12cp

**Spring semester**

Select 24 credit points of options 24cp
Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au

C10131v5 Bachelor of Medical Science Bachelor of Laws
Award(s): Bachelor of Medical Science (BMedSc)
Bachelor of Laws (LLB)
UAC code: 609655
CRICOS code: 02578G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The law is of special importance in many areas of medical science, including medical and health practice, medical and biological research and industrial and commercial enterprise. The Bachelor of Medical Science Bachelor of Laws is offered jointly by UTS: Law and UTS: Science.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the academic requirements only for admission as a lawyer together with specialisation in medical science.

The course addresses the increasing need for medical science expertise among lawyers. Graduates develop critical and analytical skills inherent to an understanding of the complex links between medical science and the law, thus increasing their employment opportunities and career choices.

Career options
Career options include lawyer in areas where a strong background in human biology, medical diagnostics, neuroscience or pharmacology is valued; manager, officer or researcher in private or public health administration.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
English proficiency; mathematics; and two science subjects.

Course duration and attendance
The course duration is five years of full-time study. Students who undertake the Bachelor of Medical Science (Honours) (C09031) (see page 116) complete the course in six years of full-time study.

The law component requires attendance at 10-15 hours of lectures a week and timetabled constraints may require attendance at daytime and evening classes. The science component requires attendance of approximately 10 hours a week at the University.

Course structure
The course comprises a total of 240 credit points and allows students to graduate with the separate degrees of Bachelor of Medical Science (BMedSc) and Bachelor of Laws (LLB). The study components for course completion are as follows.

The law component of 144 credit points is made up of:
• 102 credit points of compulsory core law subjects, and
• 42 credit points of law options.

The medical science component comprises 96 credit points of core medical science subjects.

Students graduate from the BMedSc independently from the LLB. However, to be eligible for graduation from the BMedSc, students must complete a total of 96 credit points of science subjects plus at least 96 credit points of Bachelor of Laws subjects.

For a current listing of subjects in each course refer to the study package directory.

Graduation from the medical science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Medical Science prior to completion of the law component of the combined degree must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, a student can graduate from the law component of the combined degree prior to completion of the medical science component, but if they wish to continue with the medical science component, they must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they need to complete all requirements for the stand-alone single degree version.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements

<table>
<thead>
<tr>
<th>Course completion requirements</th>
<th>Bachelor of Medical Science</th>
<th>Bachelor of Laws</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90349 Core subjects (Medical Science)</td>
<td>96cp</td>
<td>7 x 6-credit-point subjects</td>
</tr>
<tr>
<td>STM90691 Law stream</td>
<td>144cp</td>
<td>Total 42 credit points</td>
</tr>
<tr>
<td>Total 240cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bachelor of Medical Science
14 core subjects
Total 102 credit points

Law options
14 core subjects
Total 102 credit points

Approved UTS: Science subjects
Total 96 credit points

Course diagram
Course program

The standard program shown is for a full-time student with law options.

All options shown are law options and are to be drawn from those on offer in CBK90383.

Year 1

Autumn semester
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp
91161 Cell Biology and Genetics 6cp
65111 Chemistry 1 6cp

Spring semester
70311 Torts 8cp
70218 Criminal Law 8cp
91400 Human Anatomy and Physiology 6cp
65212 Chemistry 2 6cp

Year 2

Autumn semester
70211 Contracts 8cp
70616 Australian Constitutional Law 8cp
91314 General Microbiology 6cp

Spring semester
70317 Real Property 8cp
70327 Commercial Law 6cp
68041 Physical Aspects of Nature 6cp
91239 Human Pathophysiology 6cp

Year 3

Autumn semester
70417 Corporate Law 8cp
70517 Equity and Trusts 8cp
91703 Physiological Systems 6cp

Spring semester
70617 Administrative Law 8cp
91705 Medical Devices and Diagnostics 6cp
Select one subject from the following: 6cp
91132 Molecular Biology 1 6cp
91401 Introductory Haematology and Immunology 6cp
91330 Epidemiology and Public Health Microbiology 6cp
Select 6 credit points of options 6cp

Year 4

Autumn semester
91707 Pharmacology 1 6cp
91320 Metabolic Biochemistry 6cp
Select 6 credit points of options 6cp

Spring semester
70717 Evidence and Criminal Procedure 6cp
91708 Medical and Applied Physiology 6cp
91709 Pharmacology 2 6cp
Select 6 credit points of options 6cp

Year 5

Autumn semester
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
91706 Neuroscience 6cp
Select one subject from the following: 6cp
91335 Molecular Biology 2 6cp
91338 Clinical Bacteriology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91358 Advanced Haematology 6cp
91359 Advanced Immunology 6cp

Spring semester
75411 Practical Experience 0cp
Select 24 credit points of options 24cp

Levels of award
The Bachelor of Laws is available with honours and requires candidates to complete the research thesis within the law option component. The rules relating to the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

Honours
The Bachelor of Medical Science (Honours) (C09031) (see page 116) requires an additional year of study and is designed to introduce students to research work in medical science. It allows eligible students to continue with postgraduate studies if desired and enhances their employment prospects.

Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer; provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Further information on the medical science component is available from:
Associate Professor Loraine Holley
Course director
telephone +61 2 9514 2180
fax +61 2 9514 2186
email Loraine.Holley@uts.edu.au

C10136v7 Bachelor of Engineering Science Bachelor of Laws

Award(s): Bachelor of Engineering Science in (name of Engineering major) [BEngSc] Bachelor of Laws [LLB]
UAC code: 699050
CRICOS code: 040713B
Commonwealth-supported place?: Yes
Load credit points: 264
Course EFTSL: 5.5
Location: City campus

Overview
The Bachelor of Engineering Science Bachelor of Laws is offered jointly by UTS: Law and UTS: Engineering and is awarded with two testamurs. The course was developed in response to growing demand for legal services in areas in which an in-depth appreciation of complex technical matters is essential. It provides an overview of the legal system as a whole and an in-depth knowledge of an engineering specialisation.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the academic requirements only for admission as a lawyer together with a specialisation in engineering science.

The course addresses the increasing need for technical expertise and legal knowledge, which are highly sought after in both private law firms and the engineering industry. Graduates develop critical and analytical skills, combined with a strong industry focus, essential for an understanding of the complex links between engineering and the law.

Career options
Career options include professions as a lawyer in areas of environmental law, technology legislation and technology-specific criminal law; consultant, legal adviser or manager to engineering corporations in Australia and overseas.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP; C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.
Local students
Admission to the chosen engineering major is dependent on the ATAR for that major being met.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics Extension 1; Physics; and English Standard. English Advanced is recommended.

Course duration and attendance
The course is normally completed in five-and-a-half years of full-time study. The hours of full-time attendance are approximately 17 hours a week and timetable constraints may require attendance at daytime and evening classes in the law component.

Course structure
The course comprises 264 credit points and allows students to graduate with the separate degrees of Bachelor of Engineering Science and Bachelor of Laws. The study components for course completion are as follows.
1. The law component is made up of 102 credit points of compulsory core law subjects and 42 credit points of law options.
2. The engineering component comprises 120 credit points of study, consisting of the core subjects in the Bachelor of Engineering Science and the field of practice subjects associated with the chosen engineering major.
3. On completion of the engineering component (as set out in 2 above) a student who has also completed at least 78 credit points of law subjects approved by UTS: Law is eligible for the award of Bachelor of Engineering Science.

A student who qualifies for the award of Bachelor of Engineering Science (according to 3 above) is, on completion of the law component, eligible for the award of Bachelor of Laws. Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.

For a current listing of subjects in each course refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
CBK90178 Major choice 84cp
STM90356 Core subjects 36cp
STM90691 Law stream 144cp
Total 264cp

Course diagram

Course program
The standard program shown is for a full-time student who has chosen the Electrical Engineering major and law options. All options shown are law options and are to be drawn from those on offer in CBK90383.

Year 1
Autumn semester
33130 Mathematical Modelling I 6cp
68037 Physical Modelling 6cp
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp

Spring semester
48230 Engineering Communication 6cp
70218 Criminal Law 8cp
70311 Torts 8cp
48510 Introduction to Electrical Engineering 6cp

Year 2
Autumn semester
70211 Contracts 8cp
70616 Australian Constitutional Law 8cp
33230 Mathematical Modelling 2 6cp

Spring semester
48521 Fundamentals of Electrical Engineering 6cp
70317 Real Property 8cp
70327 Commercial Law 6cp
48520 Electronics and Circuits 6cp

Year 3
Autumn semester
48441 Introductory Digital Systems 6cp
48540 Design Fundamentals 6cp
70417 Equity and Trusts 8cp
70417 Corporate Law 8cp

Spring semester
70617 Administrative Law 8cp
48530 Circuit Analysis 6cp
68038 Advanced Mathematics and Physics 6cp
Select 6 credit points of options 6cp

Year 4
Autumn semester
48430 Embedded C 6cp
48531 Electromechanical Automation 6cp
Select 12 credit points of options 12cp

Spring semester
48540 Signals and Systems 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
70717 Evidence and Criminal Procedure 6cp

Year 5
Autumn semester
48250 Engineering Economics and Finance 6cp
48560 Introductory Control 6cp
75420 Ethics and Professional Conduct 6cp
75421 Civil Litigation 6cp

Spring semester
Select 24 credit points of options 24cp

Year 6
Autumn semester
48571 Electrical Machines 6cp
48572 Power Circuit Theory 6cp

Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).
Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training (PLT) program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467). Students wishing to obtain full recognition as graduate engineers have the option of articulating to the Bachelor of Engineering (C10067) (see page 152) or Bachelor of Engineering Diploma in Engineering Practice (C10061) (see page 140) depending on entry requirements.

Other information
Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C10143v5 Bachelor of Information Technology
Award(s): Bachelor of Information Technology (BInfTech)
UAC code: 603101
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
This course is only offered to local students. It is intended for local current school leavers. This course is not offered to international students.

Overview
This is a cooperative education scholarship program in computer information systems, developed by UTS in cooperation with a group of leading organisations. It differs from other cooperative education courses in that, during an industry-based semester, the structured program designed jointly by UTS and the employer group, including formal coursework delivered by industry. There are a limited number of places available in this course according to the number of industry sponsors each year. If selected for this course, students receive a total scholarship of around $46,500 for the duration of the course.

This intensive course includes two six-month industry placements with different industry sponsors. Industry sponsors are heavily involved in the curriculum design to ensure graduates are not only highly qualified but also have the knowledge and skills relevant to the needs of industry.

Students normally secure graduate employment before completion of the course, which has a track record of 100 per cent employment. Sponsors also actively recruit graduates from the course but students are not obliged to take up employment with a sponsor.

Course aims
Students gain an understanding of both business practice and technical skills in IT and computing, and learn how to apply IT solutions to business challenges.

Career options
Career options include ICT business analyst, systems analyst, analyst/programmer, software developer, information systems manager, IT consultant, programmer/developer or IT project manager.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

This is an intensive scholarship course intended primarily for current school leavers, although applications are also accepted from non-current school leavers. Special application and selection procedures apply. Applicants must submit a Bachelor of Information Technology application questionnaire and attend an interview.

Applicants must demonstrate leadership potential and involvement in extra-curricular activities and it is expected that students achieve an ATAR of around 90. If suitable, students are interviewed before selection. Final selection is based on the result of the interview and ATAR. There are two application and interview rounds.

Further information is available from:
http://it.uts.edu.au/courses/scholarships/bit
Eligibility for admission does not guarantee offer of a place.

Assumed knowledge
Mathematics and any two units of English.
HSC Mathematics Extension 1 and English Advanced are recommended.

Course duration and attendance
The course is of three years’ duration and involves four semesters of full-time study at the University and two semesters of full-time industry-based study and practical experience. The industry-based semesters are of 23 weeks’ duration.

Course structure
Students are required to complete 144 credit points, comprising 120 credit points in compulsory subjects and 24 credit points in electives. The central curriculum of the course is computer and information systems. This is supported by studies in management and strategic planning, as well as the necessary background subjects in information technology and programming.

There are special conditions relating to students enrolled in this course. Leave of absence and re-admission after withdrawal are not normally granted to students, except under extraordinary circumstances and subject to satisfactory arrangements being possible.

Rules and regulations
UTS: Information Technology does not recommend probation for unsatisfactory academic performance. Instead, it recommends to the Faculty Board in Engineering and Information Technology that a student be excluded under any of the following circumstances:
• a student fails any subject for the second time
• a student gains less than 50 per cent of the credit points for which he or she is enrolled in that assessment period
• a student fails any subject that is part of the program of an industry-based semester or a student performs unsatisfactorily in an industry-based semester, or
• immediately prior to the commencement of an industry-based semester, a student has still to complete more than one subject in the normal program of the course to that stage.

As an alternative to exclusion, a student whose performance is unsatisfactory according to the circumstances named above may have their enrolment forcibly transferred from the Bachelor of Information Technology to the Bachelor of Science in Information Technology course by means of an internal course transfer: continuing. The decision of whether a student is recommended for exclusion or a forced course transfer is at the sole discretion of the faculty and dependent on the individual circumstances of the student.

Appeals against exclusion are dealt with by the University’s Appeals Committee (of the Academic Board), which takes into account the recommendation of the Course Steering Committee.

Industrial training/professional practice
Students spend two six-month, full-time semesters in industry.

Course diagram

Further information is available from:
http://it.uts.edu.au/courses/scholarships/bit
Eligibility for admission does not guarantee offer of a place.

Assumed knowledge
Mathematics and any two units of English.
HSC Mathematics Extension 1 and English Advanced are recommended.

Course duration and attendance
The course is of three years’ duration and involves four semesters of full-time study at the University and two semesters of full-time industry-based study and practical experience. The industry-based semesters are of 23 weeks’ duration.

Course structure
Students are required to complete 144 credit points, comprising 120 credit points in compulsory subjects and 24 credit points in electives. The central curriculum of the course is computer and information systems. This is supported by studies in management and strategic planning, as well as the necessary background subjects in information technology and programming.

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• immediately prior to the commencement of an industry-based semester, a student has still to complete more than one subject in the normal program of the course to that stage.

As an alternative to exclusion, a student whose performance is unsatisfactory according to the circumstances named above may have their enrolment forcibly transferred from the Bachelor of Information Technology to the Bachelor of Science in Information Technology course by means of an internal course transfer: continuing. The decision of whether a student is recommended for exclusion or a forced course transfer is at the sole discretion of the faculty and dependent on the individual circumstances of the student.

Appeals against exclusion are dealt with by the University’s Appeals Committee (of the Academic Board), which takes into account the recommendation of the Course Steering Committee.

Industrial training/professional practice
Students spend two six-month, full-time semesters in industry.
Course completion requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90668 Core subjects (IT)</td>
<td>90 cp</td>
</tr>
<tr>
<td>STM90669 Core subjects (Industry)</td>
<td>30 cp</td>
</tr>
<tr>
<td>CBK90571 Electives</td>
<td>24 cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>144 cp</strong></td>
</tr>
</tbody>
</table>

Course program

The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Note: Subjects listed as electives may not be offered every semester.

**Year 1**

**Autumn semester**
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp

**Spring semester**
- 31269 Business Requirements Modelling 6cp
- 31489 Industry Study 1 6cp
- 31491 Industry Project 1 9cp

**Year 2**

**Autumn semester**
- 48024 Applications Programming 6cp
- 31257 Information System Development Methodologies 6cp
- 31270 Networking Essentials 6cp
- 31271 Database Fundamentals 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 31247 Collaborative Business Processes 6cp
- 48440 Software Engineering Practice 6cp
- 31281 Systems Development Project 12cp

**Year 3**

**Autumn semester**
- 31490 Industry Study 2 6cp
- 31492 Industry Project 2 9cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 31245 Business Process and IT Strategy 6cp
- 31272 Project Management and the Professional 6cp
- Select 12 credit points of electives 12cp

Honours

Students interested in research and who excel in their studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C09019) (see page 111) program.

Professional recognition

Graduates are eligible for professional-level membership of the Australian Computer Society.

Other information

Further information for current and future students is available from:
- Building 10 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C10148v4 Bachelor of Science in Information Technology

Award(s): Bachelor of Science in Information Technology [BSc]
UAC code: 603201
CRICOS code: 040941A
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)

This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it.

Local applicants now apply for the Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice (C10152) (see page 196), which includes the industry training year and provides a comprehensive preparation for a career in IT.

Overview

This course offers a sound education in all aspects of computing and information technology for students who intend to make a career in the profession, as well as providing a pathway to honours, postgraduate study or a research career.

This course adopts a practice-based approach to IT education and the course content is a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in business analysis, problem solving, teamwork and communication. Employers look for graduates with industry experience and, in this course, students are exposed to real IT problems.

UTS: Information Technology continues to support part-time study and some subjects can be taken in the evening as well as during the day.

Course aims

The course aims to produce graduates who are able to apply, in the context of any organisation, the knowledge and skills required of:
- information systems professionals in business units who integrate packaged systems rather than develop systems from first principles
- information technology professionals who develop systems from first principles
- network specialists who build, maintain and administer complex network systems, or
- computing specialists for technical research careers.

Career options

Career options include business analyst, IT project manager, network specialist, software developer, systems analyst or web developer.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 6.0; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics and any two units of English.

HSC Mathematics Extension 1 and English Advanced are recommended.
External articulation

Students who gain entry through the UTS INSEARCH pathway are eligible for 48 credit points of credit recognition. Students who have completed a relevant diploma at TAFE NSW may be eligible for at least 24 credit points of credit recognition. There are also articulations with this course with institutions in China, Hong Kong, Malaysia and Singapore. Details are available from the Building 10 Student Centre.

Credit recognition

Students who have previously undertaken study at a university or other recognised tertiary education institution may be eligible for some academic credit for their prior study if the subjects previously completed are deemed by the Faculty of Engineering and Information Technology to be equivalent to subjects in the course.

The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. Students must be able to demonstrate that their knowledge is current.

Credit recognition is not normally granted in this course for study completed at a private college except where UTS has an external articulation agreement with the college. TAFE IT diplomas and advanced diplomas completed within three years of enrolment may be granted some credit recognition. For further details see: www.it.uts.edu.au/courses/undergraduate/credit-recognition.html

There are no exemptions granted for the networking subjects 31270, 31277 and 31285 without the successful completion of the challenge test for each of these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and/or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance

The course is completed in three years of full-time or six years of part-time study. A significant number of subjects are offered in the evening but some daytime attendance is required for part-time students.

Course structure

Students are required to complete 144 credit points, comprising 48 credit points of core subjects, 48 credit points of one compulsory IT major and 48 credit points of electives.

Students must complete eight foundation core subjects (6 credit points each) and an IT major (48 credit points).

The 48 credit points of electives can be a combination of a second IT major, or two sub-majors, or one sub-major and four electives, or eight electives to broaden their knowledge of information technology and other disciplines.

Course diagram

Industrial training/professional practice

Industrial training is available as a separate course. Students enrol into the Diploma in Information Technology Professional Practice (C200499) (see page 299) once they have secured suitable full-time employment in the IT industry. This incorporates a minimum of nine months’ full-time paid work experience with four supporting subjects at UTS. Full-time students normally undertake industrial training after completing Year 2.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90651</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90781</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90782</td>
<td>48cp</td>
</tr>
<tr>
<td>Total</td>
<td>144cp</td>
</tr>
</tbody>
</table>

Course program

Example full-time programs are shown below. Refer to CBK90782 for the IT majors and approved sub-majors available to students in this course. All students are required to complete one IT major.

Note: Subjects listed as electives and IT major subjects are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Business Information Systems Management major

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31265</td>
<td>Communication for IT Professionals 6cp</td>
</tr>
<tr>
<td>31266</td>
<td>Introduction to Information Systems 6cp</td>
</tr>
<tr>
<td>48023</td>
<td>Programming Fundamentals 6cp</td>
</tr>
<tr>
<td>31268</td>
<td>Web Systems 6cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31269</td>
<td>Business Requirements Modelling 6cp</td>
</tr>
<tr>
<td>31270</td>
<td>Networking Essentials 6cp</td>
</tr>
<tr>
<td>31247</td>
<td>Collaborative Business Processes 6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

Autumn semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31271</td>
<td>Database Fundamentals 6cp</td>
</tr>
<tr>
<td>31257</td>
<td>Information System Development Methodologies 6cp</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6cp</td>
</tr>
<tr>
<td>31255</td>
<td>Finance and IT 6cp</td>
</tr>
<tr>
<td>31097</td>
<td>IT Operations Management 6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31258</td>
<td>Innovations for Global Relationship Management 6cp</td>
</tr>
<tr>
<td>31245</td>
<td>Business Process and IT Strategy 6cp</td>
</tr>
<tr>
<td>Select 12 credit points of electives</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Year 3

Autumn semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31272</td>
<td>Project Management and the Professional Management 6cp</td>
</tr>
<tr>
<td>31276</td>
<td>Networked Enterprise Architecture 6cp</td>
</tr>
<tr>
<td>Select 12 credit points of electives</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31280</td>
<td>Strategic IT Project 6cp</td>
</tr>
<tr>
<td>31282</td>
<td>Systems Testing and Quality Management 6cp</td>
</tr>
<tr>
<td>Select 12 credit points of electives</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Enterprise Systems Development major

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31265</td>
<td>Communication for IT Professionals 6cp</td>
</tr>
<tr>
<td>31266</td>
<td>Introduction to Information Systems 6cp</td>
</tr>
<tr>
<td>48023</td>
<td>Programming Fundamentals 6cp</td>
</tr>
<tr>
<td>31268</td>
<td>Web Systems 6cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31269</td>
<td>Business Requirements Modelling 6cp</td>
</tr>
<tr>
<td>31270</td>
<td>Networking Essentials 6cp</td>
</tr>
<tr>
<td>48024</td>
<td>Applications Programming 6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Year 2

Autumn semester
31271 Database Fundamentals 6cp
31251 Data Structures and Algorithms 6cp
31260 Interface Design 6cp
Select 6 credit points of electives 6cp

Spring semester
48440 Software Engineering Practice 6cp
31281 Systems Development Project 12cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
31272 Project Management and the Professional 6cp
Select 6 credit points from the following options: 6cp
31284 Web Services Development 6cp
31253 Database Programming 6cp
31100 Enterprise Development with .NET 6cp
31177 Human-Computer Interaction 6cp
41001 Cloud Computing and Software as a Service 6cp
Select 12 credit points of electives 12cp

Spring semester
Select 6 credit points from the following options: 6cp
31284 Web Services Development 6cp
48440 Software Engineering Practice 6cp
31270 Networking Essentials 6cp
Select 12 credit points of electives 12cp

Internetworking and Applications major

Year 1

Autumn semester
31265 Communication for IT Professionals 6cp
31266 Introduction to Information Systems 6cp
48023 Programming Fundamentals 6cp
31268 Web Systems 6cp

Spring semester
31269 Business Requirements Modelling 6cp
31270 Networking Essentials 6cp
Select 12 credit points of electives 12cp

Year 2

Autumn semester
31271 Database Fundamentals 6cp
31250 Introduction to Data Analytics 6cp
35101 Introduction to Linear Dynamical Systems 6cp
Select 6 credit points of electives 6cp

Spring semester
31275 Mobile Networking 6cp
Select 6 credit points from the following options: 6cp
31256 Image Processing and Pattern Recognition 6cp
31000 e-Business Trading 6cp
31050 Programming with Patterns 6cp
31253 Database Programming 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
31272 Project Management and the Professional 6cp
31261 Internetworking Project 6cp
Select 6 credit points from the following options: 6cp
31283 WANs and Virtual LANs 6cp
48024 Applications Programming 6cp
31254 e-Commerce 6cp
31274 Network Management 6cp
31748 Programming on the Internet 6cp
31285 Mobile Applications Development 6cp
Select 6 credit points of electives 6cp

Spring semester
31252 Network Security 6cp
Select 6 credit points from the following options: 6cp
31283 WANs and Virtual LANs 6cp
31285 Mobile Applications Development 6cp
31242 Advanced Internet Programming 6cp
31338 Network Servers 6cp
Select 12 credit points of electives 12cp

Data Analytics major

Year 1

Autumn semester
31265 Communication for IT Professionals 6cp
31266 Introduction to Information Systems 6cp
48023 Programming Fundamentals 6cp
31268 Web Systems 6cp

Spring semester
31269 Business Requirements Modelling 6cp
31270 Networking Essentials 6cp
Select 12 credit points of electives 12cp

Year 2

Autumn semester
31271 Database Fundamentals 6cp
31250 Introduction to Data Analytics 6cp
35101 Introduction to Linear Dynamical Systems 6cp
Select 6 credit points of electives 6cp

Spring semester
31269 Business Requirements Modelling 6cp
Select 6 credit points from the following options: 6cp
31256 Image Processing and Pattern Recognition 6cp
41004 Analytics Capstone Project 6cp
Select 12 credit points of electives 6cp

Year 3

Autumn semester
31272 Project Management and the Professional 6cp
31261 Internetworking Project 6cp
Select 6 credit points from the following options: 6cp
31283 WANs and Virtual LANs 6cp
48024 Applications Programming 6cp
31254 e-Commerce 6cp
31274 Network Management 6cp
31748 Programming on the Internet 6cp
31285 Mobile Applications Development 6cp
Select 6 credit points of electives 6cp

Spring semester
Select 12 credit points from the following options: 12cp
31243 Analytics Capstone Project B 6cp
31259 Intelligent Agents 6cp
31005 Data Mining Algorithms 6cp
31075 Object-relational Databases 6cp
31256 Image Processing and Pattern Recognition 6cp
Select 12 credit points of electives 12cp

Levels of award

The Bachelor of Science in Information Technology may be awarded with a distinction, credit or pass.

Honours

Students interested in research and who excel in their studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C09019) (see page 111). The honours year is also available on a part-time basis over two years.

Professional recognition

Graduates are eligible for professional-level membership of the Australian Computer Society.
196

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10152v4 Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice

Award(s): Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice (BScDiplInfTechProfPrac)
UAC code: 603000
CRICOS code: 040940B
Commonwealth-supported place?: Yes
Load credit points: 156
Course EFTSL: 3.25
Location: City campus

Overview
This course offers a sound education in all aspects of computing and information technology for students who intend to make a career in the profession, as well as providing a pathway to honours, postgraduate study and a research career.

The course adopts a practice-based approach to IT education. Its content is designed with a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in problem solving, teamwork and communication. Employers look for graduates with industry experience and, in this course, students are exposed to real IT problems and apply classroom learning on the job through the Diploma in Information Technology Professional Practice.

UTS: Information Technology continues to support part-time study with some subjects offered in the evening as well as during the day.

Course aims
The course aims to produce graduates who are able to apply, in the context of any organisation, the knowledge and skills required of:

- information professionals in business units who integrate packaged systems rather than develop systems from first principles
- information technology professionals who develop systems from first principles
- network specialists who build, maintain and administer complex network systems, or
- computing specialists for technical research careers.

Career options
Career options include ICT business analyst, analyst/programmer, IT project manager, network specialist, software developer, software engineer, systems analyst or web developer.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Non-current school leavers are advised to complete the employment question on their UAC application and provide supporting statements of employment to UAC as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English. Mathematics Extension 1 and English Advanced are recommended.

External articulation
Students who gain entry through the UTS INSEARCH pathway are eligible for 48 credit points of credit recognition. Students who have completed a relevant diploma at TAFE NSW may be eligible for at least 24 credit points of credit recognition. There are also articulations with this course with institutions in China, Hong Kong, Malaysia and Singapore. Details are available from the Building 10 Student Centre.

Credit recognition
Students who have previously undertaken study at a university or other recognised tertiary education institution may be eligible for some academic credit for their prior study if the subjects previously completed are deemed by the Faculty of Engineering and Information Technology to be equivalent to subjects in the course.

The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. Students must be able to demonstrate that their knowledge is current. Credit recognition is not normally granted in this course for study completed at a private college except where UTS has an external articulation agreement with the college. TAFE IT diplomas and advanced diplomas completed within three years of enrolment may be granted some credit recognition. For further details see: www.it.uts.edu.au/courses/undergraduate/credit-recognition.html

There are no exemptions granted for the networking subjects 31270, 31277 and 31283 without the successful completion of the challenge test for each of the these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and/or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance
The course is completed in four years of full-time or six years of part-time study. It comprises six academic semesters of full-time (or equivalent part-time) study, and a period of industrial training.

A significant number of subjects are offered in the evening but some daytime attendance is required for part-time students.

To gain credit for the DipITProfPrac, students are required to obtain an approved, full-time job within the information technology industry for a minimum of nine months.

Course structure
Students are required to complete 156 credit points, comprising 48 credit points of core subjects, 48 credit points for one compulsory IT major, 48 credit points of electives and 12 credit points for the Diploma in Information Technology Professional Practice.

The 48 credit points of electives can be a combination of a second IT major, or two sub-majors, or one sub-major and four electives, or eight electives to broaden knowledge of information technology and other disciplines.

Industrial training/professional practice
The Diploma in Information Technology Professional Practice is a compulsory part of this course and incorporates a minimum of nine months’ work experience and four supporting subjects at UTS. Full-time students normally undertake the diploma after completing Year 2 and after obtaining suitable full-time employment in the information technology industry. International students can work full-time for the duration of the diploma.

Course completion requirements

<table>
<thead>
<tr>
<th>Course code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90380 IT Experience program</td>
<td>12cp</td>
<td></td>
</tr>
<tr>
<td>STM90651 Core subjects (Information Technology)</td>
<td>48cp</td>
<td></td>
</tr>
<tr>
<td>CBK90781 Major choice (Information Technology)</td>
<td>48cp</td>
<td></td>
</tr>
<tr>
<td>CBK90782 Major/Two sub-majors/Electives</td>
<td>48cp</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>156cp</strong></td>
<td></td>
</tr>
</tbody>
</table>
Course program

Example full-time programs are shown below. Refer to CBK90782 for the IT majors and approved sub-majors available to students in this course. All students are required to complete one IT major.

Note: Subjects listed as electives and IT major subjects are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Business Information Systems Management major

Year 1

Autumn semester
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp

Spring semester
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- 31247 Collaborative Business Processes 6cp

Select 6 credit points of electives 6cp

Year 2

Autumn semester
- 31271 Database Fundamentals 6cp
- 31257 Information System Development Methodologies 6cp

Select one of the following:
- 31255 Finance and IT 6cp
- 31097 IT Operations Management 6cp

Select 6 credit points of electives 6cp

Spring semester
- 31258 Innovations for Global Relationship Management 6cp
- 31245 Business Process and IT Strategy 6cp

Select 12 credit points of electives 12cp

Year 3

Autumn semester
- 31136 Preparation for and Review of IT Experience 6cp
- 31137 IT Experience 1 0cp

Spring semester
- 31138 Review of IT Experience 6cp
- 31139 IT Experience 2 0cp

Computing and Data Analytics major

Year 1

Autumn semester
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp

Spring semester
- 31258 Innovations for Global Relationship Management 6cp
- 31245 Business Process and IT Strategy 6cp

Select 12 credit points of electives 12cp

Year 2

Autumn semester
- 31271 Database Fundamentals 6cp
- 31250 Introduction to Data Analytics 6cp
- 35101 Introduction to Linear Dynamical Systems 6cp

Select 6 credit points of electives 6cp

Spring semester
- 35151 Introduction to Statistics 6cp

Select 6 credit points from the following options: 6cp
- 31005 Data Mining Algorithms
- 31075 Object-relational Databases
- 31256 Image Processing and Pattern Recognition
- 31259 Intelligent Agents

Select 12 credit points of electives 12cp

Year 3

Autumn semester
- 31136 Preparation for and Review of IT Experience 6cp
- 31137 IT Experience 1 0cp
Spring semester
31138  Review of IT Experience  6cp
31139  IT Experience 2  0cp

Year 4
Autumn semester
31272  Project Management and the Professional  6cp
41004  Analytics Capstone Project  6cp
Select 6 credit points from the following options:  6cp
31256  Image Processing and Pattern Recognition  6cp
31000  e-Business Trading  6cp
31050  Programming with Patterns  6cp
31253  Database Programming  6cp
Select 6 credit points of electives  6cp

Spring semester
Select 12 credit points from the following options:  12cp
31243  Analytics Capstone Project B  6cp
31259  Intelligent Agents  6cp
31005  Data Mining Algorithms  6cp
31075  Object-relational Databases  6cp
31256  Image Processing and Pattern Recognition  6cp
Select 12 credit points of electives  12cp

Enterprise Systems Development major
Year 1
Autumn semester
31265  Communication for IT Professionals  6cp
31266  Introduction to Information Systems  6cp
48023  Programming Fundamentals  6cp
31268  Web Systems  6cp
Spring semester
31269  Business Requirements Modelling  6cp
31270  Networking Essentials  6cp
48024  Applications Programming  6cp
Select 6 credit points of electives  6cp

Year 2
Autumn semester
31271  Database Fundamentals  6cp
31251  Data Structures and Algorithms  6cp
31260  Interface Design  6cp
Select 6 credit points of electives  6cp
Spring semester
48440  Software Engineering Practice  6cp
31281  Systems Development Project  12cp
Select 6 credit points of electives  6cp

Year 3
Autumn semester
31136  Preparation for and Review of IT Experience  6cp
31137  IT Experience 1  0cp
Spring semester
31138  Review of IT Experience  6cp
31139  IT Experience 2  0cp

Year 4
Autumn semester
31272  Project Management and the Professional  6cp
Select 6 credit points from the following options:  6cp
31284  Web Services Development  6cp
31253  Database Programming  6cp
31000  Enterprise Development with .NET  6cp
31777  Human-Computer Interaction  6cp
41001  Cloud Computing and Software as a Service  6cp
Select 12 credit points of electives  12cp

Spring semester
Select 6 credit points from the following options:  6cp
31284  Web Services Development  6cp
48433  Software Architecture  6cp
31075  Object-relational Databases  6cp
31335  Extreme Programming  6cp
31927  Application Development with .NET  6cp
31242  Advanced Internet Programming  6cp
41005  Cloud-based Enterprise Application Development  6cp
Select 18 credit points of electives  18cp

Internetworking and Applications major
Year 1
Autumn semester
31265  Communication for IT Professionals  6cp
31266  Introduction to Information Systems  6cp
48023  Programming Fundamentals  6cp
31268  Web Systems  6cp
Spring semester
31269  Business Requirements Modelling  6cp
31270  Networking Essentials  6cp
Select 12 credit points of electives  12cp

Year 2
Autumn semester
31271  Database Fundamentals  6cp
31284  Web Services Development  6cp
31277  Routing and Internetworks  6cp
Select 6 credit points of electives  6cp
Spring semester
31275  Mobile Networking  6cp
31246  Network Design  6cp
Select 12 credit points of electives  12cp

Year 3
Autumn semester
31136  Preparation for and Review of IT Experience  6cp
31137  IT Experience 1  0cp
Spring semester
31138  Review of IT Experience  6cp
31139  IT Experience 2  0cp

Level of award
The Bachelor of Science in Information Technology may be awarded with a distinction, credit or pass.
Honours
Students interested in research and who excel in their studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C109019) (see page 111) program. The honours year is also available on a part-time basis over two years.

Professional recognition
Graduates are eligible for professional-level membership of the Australian Computer Society.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10155v8 Bachelor of Mathematics and Finance
Award(s): Bachelor of Mathematics and Finance (BMathFin)
UAC code: 609040
CRICOS code: 008671G
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
In the years since deregulation of the Australian financial system there have been many sweeping changes and a considerable increase in the financial and economic activity of many Australian corporations. During this same period the use of sophisticated quantitative techniques in a variety of areas within the operations of major financial institutions has become the norm. As a consequence, there is a demonstrated and continuing demand for graduates trained in both mathematics and finance. To meet this need the School of Mathematical Sciences in UTS: Science and the School of Finance and Economics in UTS: Business jointly offer this course.

Mathematical techniques are increasingly important for risk assessment and the optimisation of financial plans, and there is a corresponding demand for highly skilled graduates in these areas. Financial institutions, large corporations and government instrumentalities seek graduates of this course to take up rewarding positions in quantitative and financial analysis.

Career options
Career options include stock market analysis, providing advice on portfolio management, option pricing, prediction of movements in international money markets and financial risk management. Major employers of graduates include banks, insurance companies, superannuation providers, government regulatory bodies such as APRA and ASIC, and other major financial bodies.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-585 overall with TWE of 4.5, internet based: 79-90 overall with a writing score of 21; or DEEP: C, or PTE: 58-64, or CAE: 58-66.
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and English.

Course duration and attendance
The degree is offered full time over three years or part time over six years.

Course structure
This course comprises 144 credit points of study.

Course completion requirements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
</tr>
<tr>
<td>23115</td>
<td>Economics for Business</td>
<td>6cp</td>
</tr>
<tr>
<td>35101</td>
<td>Introduction to Linear Dynamical Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>35151</td>
<td>Introduction to Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>35102</td>
<td>Introduction to Analysis and Multivariable Calculus</td>
<td>6cp</td>
</tr>
<tr>
<td>35140</td>
<td>Introduction to Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25556</td>
<td>The Financial System</td>
<td>6cp</td>
</tr>
<tr>
<td>35232</td>
<td>Advanced Calculus</td>
<td>6cp</td>
</tr>
<tr>
<td>35212</td>
<td>Computational Linear Algebra</td>
<td>6cp</td>
</tr>
<tr>
<td>25503</td>
<td>Investment Analysis</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one of the following:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>25410</td>
<td>Corporate Financial Analysis (Capstone)</td>
<td>6cp</td>
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<tr>
<td>25558</td>
<td>Issues in Corporate Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>25421</td>
<td>International Financial Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35241</td>
<td>Optimisation in Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35252</td>
<td>Mathematical Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>25620</td>
<td>Derivative Securities</td>
<td>6cp</td>
</tr>
<tr>
<td>35231</td>
<td>Differential Equations</td>
<td>6cp</td>
</tr>
<tr>
<td>35363</td>
<td>Stochastic Models</td>
<td>6cp</td>
</tr>
<tr>
<td>35353</td>
<td>Regression Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>25606</td>
<td>Financial Time Series</td>
<td>6cp</td>
</tr>
<tr>
<td>35361</td>
<td>Stochastic Processes</td>
<td>6cp</td>
</tr>
<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
<tr>
<td>25557</td>
<td>Corporate Finance: Theory and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>23566</td>
<td>Economics for Business 2</td>
<td>6cp</td>
</tr>
<tr>
<td>25008</td>
<td>Options</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 144cp

Course program
The program shown assumes full-time attendance, commencing in Autumn semester.

Year 1

Autumn semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35101</td>
<td>Introduction to Linear Dynamical Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>35151</td>
<td>Introduction to Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
</tr>
<tr>
<td>23115</td>
<td>Economics for Business</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Spring semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35140</td>
<td>Introduction to Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35102</td>
<td>Introduction to Analysis and Multivariable Calculus</td>
<td>6cp</td>
</tr>
<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
<tr>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

Autumn semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35212</td>
<td>Computational Linear Algebra</td>
<td>6cp</td>
</tr>
<tr>
<td>35241</td>
<td>Optimisation in Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35363</td>
<td>Stochastic Models</td>
<td>6cp</td>
</tr>
<tr>
<td>25556</td>
<td>The Financial System</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Spring semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35231</td>
<td>Differential Equations</td>
<td>6cp</td>
</tr>
<tr>
<td>35353</td>
<td>Regression Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>23566</td>
<td>Economics for Business 2</td>
<td>6cp</td>
</tr>
<tr>
<td>25503</td>
<td>Investment Analysis</td>
<td>6cp</td>
</tr>
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</table>

Year 3

Autumn semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35252</td>
<td>Mathematical Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>35252</td>
<td>Advanced Calculus</td>
<td>6cp</td>
</tr>
<tr>
<td>25620</td>
<td>Derivative Securities</td>
<td>6cp</td>
</tr>
<tr>
<td>25557</td>
<td>Corporate Finance: Theory and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

major, although every effort is made to meet students' preferences. There is a range of entry levels to the admissions policy for the Bachelor of Mathematics and Finance. Admission to the combined degree is on merit according to the Australian or overseas qualification at the required level.

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Mathematics and Finance (C10155) (see page 199). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-83 overall with a writing score of 21; or DEEP: C; or PTE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance

The combined degree is available only on a full-time basis over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure

Students are required to complete 240 credit points, comprising 144 credit points in mathematics and finance and 96 credit points in international studies. The mathematics and finance component of the course includes an integrated sequence of subjects in mathematics, statistics, finance, economics and accounting. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the mathematics and finance component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Arts and Finance prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Mathematics and Finance (C10155) (see page 199) single degree program where they must complete all requirements for the stand-alone single degree.

Overseas study

Students spend their fourth year of study at a university overseas.

Course completion requirements

The Bachelor of Mathematics and Finance (Honours) (C09021) (see page 113) is available to eligible students with an additional one year of full-time study.

Other information

Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
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C10157v5 Bachelor of Mathematics and Finance Bachelor of Arts in International Studies

Award(s): Bachelor of Mathematics and Finance [BMathFin] Bachelor of Arts in International Studies [BA] UAC code: 609220 CRICOS code: 026197A Commonwealth-supported place?: Yes
Load credit points: 240 Course EFTSL: 5 Location: City campus

Note(s)

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview

This course integrates studies in mathematics and finance with a major in the language and culture of another country. Students undertake an integrated sequence of study in mathematics, statistics, finance, economics and accounting.

The course provides sound training in both the traditional theory of finance and the mathematical aspects of modern portfolio management techniques. Graduates find interesting and rewarding employment in quantitative and financial analysis in major financial institutions such as banks, insurance companies and government instrumentalities.

With one year of international experience gained from studying and living overseas, graduates find it easier to adapt and work overseas or in Australia.

Career options

Career options include positions in derivative pricing and risk management, portfolio management, stock market analysis, and other areas of high responsibility and high reward in the finance industry.

Admission requirements

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance

The combined degree is available only on a full-time basis over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure

Students are required to complete 240 credit points, comprising 144 credit points in mathematics and finance and 96 credit points in international studies. The mathematics and finance component of the course includes an integrated sequence of subjects in mathematics, statistics, finance, economics and accounting. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the mathematics and finance component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Arts and Finance prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Mathematics and Finance (C10155) (see page 199) single degree program where they must complete all requirements for the stand-alone single degree.

Overseas study

Students spend their fourth year of study at a university overseas.

Course completion requirements

22107 Accounting for Business Decisions A 6cp
23115 Economics for Business 6cp
35101 Introduction to Linear Dynamical Systems 6cp
35151 Introduction to Statistics 6cp
25300 Fundamentals of Business Finance 6cp
35102 Introduction to Analysis and Multivariable Calculus 6cp
35140 Introduction to Quantitative Management 6cp
25556 The Financial System 6cp
35232 Advanced Calculus 6cp
35212 Computational Linear Algebra 6cp
25503 Investment Analysis 6cp

Select one of the following: 6cp

25410 Corporate Financial Analysis (Capstone) 6cp
25558 Issues in Corporate Finance 6cp
25421 International Financial Management 6cp

35241 Optimisation in Quantitative Management 6cp
35252 Mathematical Statistics 6cp
25620 Derivative Securities 6cp
35231 Differential Equations 6cp
35363 Stochastic Models 6cp
35353 Regression Analysis 6cp
25606 Financial Time Series 6cp
35361 Stochastic Processes 6cp
CBK90821 Options 6cp
CBK90005 Country major choice 96cp
22207 Accounting for Business Decisions B 6cp
25557 Corporate Finance: Theory and Practice 6cp
23966 Economics for Business 2 6cp

Total 240cp

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance

The combined degree is available only on a full-time basis over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure

Students are required to complete 240 credit points, comprising 144 credit points in mathematics and finance and 96 credit points in international studies. The mathematics and finance component of the course includes an integrated sequence of subjects in mathematics, statistics, finance, economics and accounting. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the mathematics and finance component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Arts and Finance prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Mathematics and Finance (C10155) (see page 199) single degree program where they must complete all requirements for the stand-alone single degree.

Overseas study

Students spend their fourth year of study at a university overseas.

Course completion requirements

22107 Accounting for Business Decisions A 6cp
23115 Economics for Business 6cp
35101 Introduction to Linear Dynamical Systems 6cp
35151 Introduction to Statistics 6cp
25300 Fundamentals of Business Finance 6cp
35102 Introduction to Analysis and Multivariable Calculus 6cp
35140 Introduction to Quantitative Management 6cp
25556 The Financial System 6cp
35232 Advanced Calculus 6cp
35212 Computational Linear Algebra 6cp
25503 Investment Analysis 6cp

Select one of the following: 6cp

25410 Corporate Financial Analysis (Capstone) 6cp
25558 Issues in Corporate Finance 6cp
25421 International Financial Management 6cp

35241 Optimisation in Quantitative Management 6cp
35252 Mathematical Statistics 6cp
25620 Derivative Securities 6cp
35231 Differential Equations 6cp
35363 Stochastic Models 6cp
35353 Regression Analysis 6cp
25606 Financial Time Series 6cp
35361 Stochastic Processes 6cp
CBK90821 Options 6cp
CBK90005 Country major choice 96cp
22207 Accounting for Business Decisions B 6cp
25557 Corporate Finance: Theory and Practice 6cp
23966 Economics for Business 2 6cp

Total 240cp
Course program

The example program shown is for a full-time student who has chosen the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Year 1

Autumn semester
- 35101 Introduction to Linear Dynamical Systems 6cp
- 35151 Introduction to Statistics 6cp
- 22107 Accounting for Business Decisions A 6cp
- 23115 Economics for Business 6cp

Spring semester
- 35140 Introduction to Quantitative Management 6cp
- 35102 Introduction to Analysis and Multivariable Calculus 6cp
- 22207 Accounting for Business Decisions B 6cp
- 25300 Fundamentals of Business Finance 6cp

Year 2

Autumn semester
- 97601 German Language and Culture 1 8cp
- 35212 Computational Linear Algebra 6cp
- 35241 Optimisation in Quantitative Management 6cp
- 35363 Stochastic Models 6cp

Spring semester
- 97602 German Language and Culture 2 8cp
- 35353 Regression Analysis 6cp
- 23566 Economics for Business 2 6cp
- 35231 Differential Equations 6cp

Year 3

Autumn semester
- 97603 German Language and Culture 3 8cp
- 976001 Foundations in International Studies 8cp
- 25556 The Financial System 6cp

Spring semester
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- 25303 Investment Analysis 6cp

Year 4

Autumn semester
- 977420 In-country Study 1: Germany 24cp

Spring semester
- 979420 In-country Study 2: Germany 24cp

Year 5

Autumn semester
- 35252 Mathematical Statistics 6cp
- 35223 Advanced Calculus 6cp
- 25620 Derivative Securities 6cp
- 25537 Corporate Finance: Theory and Practice 6cp

Spring semester
- Select one of the following: 6cp
  - 33342 Nonlinear Methods in Quantitative Management 6cp
  - 33335 Mathematical Methods 6cp
  - 33391 Seminar (Mathematics) 6cp
- 35361 Stochastic Processes 6cp
- 25606 Financial Time Series 6cp
- Select 6 credit points from the following options: 6cp
  - 25410 Corporate Financial Analysis (Capstone) 6cp
  - 25421 International Financial Management 6cp
  - 25558 Issues in Corporate Finance 6cp

Honours

An honours degree, leading to the qualification of Bachelor of Mathematics and Finance (Honours) (C09021) (see page 113) and requiring an additional year of full-time study, is available.

Other information

Further information on the mathematics and finance component is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au

C10158v4 Bachelor of Mathematics and Computing

Award(s): Bachelor of Mathematics and Computing (BMathComp)
- UAC code: 609045
- CRICOS code: 029389B
- Commonwealth-supported place?: Yes
- Load credit points: 144
- Course EFTSL: 3
- Location: City campus

Note(s)

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview

This course is designed to meet the increasing industry need for graduates with both computational and analytical skills. It offers the prospect of careers that require a sound knowledge of computing together with the ability to analyse and model practical situations. Mathematical and computational techniques are increasingly important for commercial, industrial and governmental activities and there is a corresponding demand for highly skilled graduates in these areas.

Career options

Career options include data mining, database design, market research, programming, software development, systems analysis, and positions in analytics, computational modelling, scheduling and logistics, statistical analysis and survey design.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics and English.

HSC Mathematics Extension 1 is recommended.

Course duration and attendance

Students can complete the course over three years full time. Full-time attendance involves approximately 16 hours each week on campus.

Students may also be able to complete the course in part-time mode, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.
Course structure
The course comprises 144 credit points made up of 72 credit points of mathematics core subjects and 48 credit points of information technology core subjects, plus a 24-credit-point information technology sub-major.

Course completion requirements
- STM90065 Core subjects (Information Technology) 48cp
- STM90324 Mathematics foundation subjects 72cp
- CBK90373 Sub-major choice 24cp
Total 144cp

Course program
The program shown assumes full-time attendance, commencing in Autumn semester.

Seminars 1-2 common subjects

Year 1
Autumn semester
- 35101 Introduction to Linear Dynamical Systems 6cp
- 35140 Introduction to Quantitative Management 6cp
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
Spring semester
- 35102 Introduction to Analysis and Multivariable Calculus 6cp
- 35151 Introduction to Statistics 6cp
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp

Seminars 3-6 Business Information Systems
Management major

Year 2
Autumn semester
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- 35212 Computational Linear Algebra 6cp
- 35363 Stochastic Models 6cp
Spring semester
- 35111 Applications of Discrete Mathematics 6cp
- 31271 Database Fundamentals 6cp
- 35353 Regression Analysis 6cp
- 48024 Applications Programming 6cp
Year 3
Autumn or Spring semester
Select 6 credit points from the following options: 6cp

Seminars 3-6 Internetworking and Applications major

Year 2
Autumn semester
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- 35212 Computational Linear Algebra 6cp
- 35363 Stochastic Models 6cp
Spring semester
- 35111 Applications of Discrete Mathematics 6cp
- 31271 Database Fundamentals 6cp
- 35353 Regression Analysis 6cp
- 48024 Applications Programming 6cp
Year 3
Autumn or Spring semester
Select 6 credit points from the following options: 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Year 3

**Autumn semester**
- 35383 High Performance Computing 6cp
- 31277 Routing and Internetworks 6cp

Select one subject from the following: 6cp
- 35252 Mathematical Statistics 6cp
- 35336 Design and Analysis of Experiments 6cp
- 35222 Advanced Calculus 6cp
- 35241 Optimisation in Quantitative Management 6cp

Select one subject from the following: 6cp
- 31283 WANs and Virtual LANs 6cp
- 31246 Network Design 6cp
- 31285 Mobile Applications Development 6cp
- 31284 Web Services Development 6cp
- 31254 e-Commerce 6cp

**Spring semester**
- 35231 Differential Equations 6cp
- 31252 Network Security 6cp
- 31272 Project Management and the Professional 6cp

Select one subject from the following: 6cp
- 35322 Advanced Analysis 6cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35361 Stochastic Processes 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp

**Semesters 3-6 Computing and Data Analytics major**

**Year 2**

**Autumn semester**
- 31269 Business Requirements Modelling 6cp
- 31271 Database Fundamentals 6cp
- 35212 Computational Linear Algebra 6cp
- 35363 Stochastic Models 6cp

**Spring semester**
- 35111 Applications of Discrete Mathematics 6cp
- 31270 Networking Essentials 6cp
- 35355 Regression Analysis 6cp
- 31250 Introduction to Data Analytics 6cp

**Year 3**

**Autumn semester**
- 35383 High Performance Computing 6cp

Select one of the following: 6cp
- 31284 Web Services Development 6cp
- 31259 Intelligent Agents 6cp

Select 12 credit points from the following options: 12cp
- 35252 Mathematical Statistics 6cp
- 35366 Design and Analysis of Experiments 6cp
- 35222 Advanced Calculus 6cp
- 35241 Optimisation in Quantitative Management 6cp

**Spring semester**
- 35231 Differential Equations 6cp
- 31272 Project Management and the Professional 6cp

Select one of the following: 6cp
- 31259 Intelligent Agents 6cp
- 31284 Web Services Development 6cp

Select 6 credit points from the following options: 6cp
- 35322 Advanced Analysis 6cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35361 Stochastic Processes 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp

Honours

Suitably qualified graduates are eligible to proceed to an additional year of advanced study in the Bachelor of Science (Honours) in Mathematics (C09020) (see page 112) or the Bachelor of Science (Honours) in Information Technology (C09019) (see page 111).

**Professional recognition**

Graduates of this course are eligible for associate-level membership of the Australian Computer Society.

**Other information**

Further information is available from:
- Building 6 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C10162v4 Bachelor of Science Bachelor of Business**

**Award(s):** Bachelor of Science in (name of Science major) [BSc]
Bachelor of Business [BBus]

**UAC code:** 609170
**CRICOS code:** 032310K
**Commonwealth-supported place?:** Yes
**Load credit points:** 192
**Course EFTSL:** 4
**Location:** City and Kuring-gai campuses

**Notes**

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

**Overview**

This course is designed to produce graduates who are prepared for scientific practice or business and management in technical, financial, regulatory, environmental, health or biomedical oriented businesses, industries or government departments. Students choose one of 10 specialised science majors according to their preference. Students also have a choice of major study in the business stream.

Demand is growing for graduates able to cross the divide between science and business. This course teaches the practical skills and knowledge that employers demand, both in science and business-related fields.

Depending on the science and business majors chosen, graduates can work in commodity and resource trading, pharmaceutical industry, as scientists in leading consumer goods companies, health services, medical research, hospitals or environmental protection agencies.

**Career options**

Career options include analyst, consultant, statistician, communicator, manager, marketer, researcher and scientist within government agencies, manufacturing, product development, scientific publishing, banking and finance, scientific and research organisations and large corporations.

See the individual entries for the Bachelor of Science (C10242) (see page 241) and the Bachelor of Business (C10026) (see page 131) for further details.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics, English; and at least one science subject.

Course duration and attendance
Students can complete the course over four years full time. Full-time attendance involves approximately 16 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking eight years to complete. Part-time students may need to attend science classes for at least one half-day a week, in addition to evening classes.

Course structure
Students are required to complete a total of 192 credit points, comprising 96 credit points of science subjects and 96 credit points of business subjects.

In the science component, students choose one of 10 possible majors representing the major science disciplines. Refer to the entry for the Bachelor of Business (C10026) (see page 131) for the possible majors available in the business component.

Graduation from the science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Science prior to completion of the business component of the combined degree must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the business component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Business (C10026) (see page 131) single degree program where they must complete all requirements for the stand-alone single degree version.

Course completion requirements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ01079</td>
<td>Applied Chemistry</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01080</td>
<td>Applied Physics</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01085</td>
<td>Nanotechnology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01081</td>
<td>Biomedical Science</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01114</td>
<td>Medical Science</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01115</td>
<td>Biotechnology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01082</td>
<td>Environmental Biology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01113</td>
<td>Environmental Forensics</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01112</td>
<td>Marine Biology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01116</td>
<td>Mathematics</td>
<td>96cp</td>
</tr>
</tbody>
</table>

Course program
The full-time programs shown below are for each science major in combination with a Human Resource Management major.

List of majors (Science)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ01079</td>
<td>Applied Chemistry</td>
<td>96cp</td>
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<tr>
<td>MAJ01080</td>
<td>Applied Physics</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01085</td>
<td>Nanotechnology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01081</td>
<td>Biomedical Science</td>
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<tr>
<td>MAJ01114</td>
<td>Medical Science</td>
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</tr>
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<td>MAJ01082</td>
<td>Environmental Biology</td>
<td>96cp</td>
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<tr>
<td>MAJ01113</td>
<td>Environmental Forensics</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01112</td>
<td>Marine Biology</td>
<td>96cp</td>
</tr>
<tr>
<td>MAJ01116</td>
<td>Mathematics</td>
<td>96cp</td>
</tr>
</tbody>
</table>

List of majors (Business)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>MAJ08437</td>
<td>Accounting</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ08438</td>
<td>Management</td>
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</tr>
<tr>
<td>MAJ08068</td>
<td>Financial Services</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ08440</td>
<td>Finance</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ08441</td>
<td>Marketing</td>
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</tr>
<tr>
<td>MAJ08442</td>
<td>International Business</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ08446</td>
<td>Human Resource Management</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ08116</td>
<td>Marketing Communication</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ09209</td>
<td>Economics</td>
<td>48cp</td>
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</tbody>
</table>

Applied Chemistry major

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>26100</td>
<td>Integrating Business Perspectives</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>33190</td>
<td>Mathematical Modelling for Science</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>65111</td>
<td>Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>21129</td>
<td>Managing People and Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>24108</td>
<td>Marketing Foundations</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>33290</td>
<td>Statistics and Mathematics for Science</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
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Year 2

<table>
<thead>
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<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>23115</td>
<td>Economics for Business</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>26134</td>
<td>Business Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>65307</td>
<td>Physical Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>68101</td>
<td>Foundations of Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>68201</td>
<td>Physics in Action</td>
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<td></td>
<td>65411</td>
<td>Inorganic Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Applied Physics major

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
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<td>Autumn</td>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
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<tr>
<td></td>
<td>26100</td>
<td>Integrating Business Perspectives</td>
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<td>Mathematical Modelling for Science</td>
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<td>65212</td>
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Year 2

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Course Name</th>
<th>Credit Points</th>
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<tr>
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<td>68201</td>
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<td>68070</td>
<td>Introduction to Materials</td>
<td>6cp</td>
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<tr>
<td></td>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Year 3

#### Autumn semester
- 21510: The Global Context of Management  
- 21555: Human Resource Management  
- 68075: Nanomaterials  
- 68412: Energy Science and Technology  

#### Spring semester
- 21440: Management Skills  
- 68315: Imaging Science  
- 68413: Quantum Physics  
- 21036: Managing Strategic Performance  

### Year 4

#### Autumn semester
- 21512: Understanding Organisations: Theory and Practice  
- 21037: Managing Employee Relations  
- Select 12 credit points from the following options:  
  - 91335: Molecular Biology 2  
  - 91338: Clinical Bacteriology  
  - 91344: Medical and Diagnostic Biochemistry  
  - 91358: Advanced Haematology  
  - 91359: Advanced Immunology  

#### Spring semester
- 21407: Strategic Human Resource Management  
- 21505: Human Resource Management (Capstone)  
- Select 12 credit points from the following options:  
  - 91329: Transfusion Science  
  - 91345: Biochemistry, Genes and Disease  
  - 91352: Parasitology  
  - 91402: Anatomical Pathology  

### Biotechnology major

#### Year 1

#### Autumn semester
- 22107: Accounting for Business Decisions A  
- 26100: Integrating Business Perspectives  
- 91161: Cell Biology and Genetics  
- 65111: Chemistry 1  

#### Spring semester
- 21129: Managing People and Organisations  
- 24108: Marketing Foundations  
- 91400: Human Anatomy and Physiology  
- 65212: Chemistry 2  

#### Year 2

#### Autumn semester
- 23115: Economics for Business  
- 26134: Business Statistics  
- 91320: Metabolic Biochemistry  
- 91314: General Microbiology  

#### Spring semester
- 25300: Fundamentals of Business Finance  
- 91326: Analytical Biochemistry  
- 91401: Introductory Haematology and Immunology  
- 21036: Managing Strategic Performance  

#### Year 3

#### Autumn semester
- 21510: The Global Context of Management  
- 21555: Human Resource Management  
- 91500: Histology  
- Select one of the following:  
  - 91703: Physiological Systems  
  - 91142: Biotechnology  

#### Spring semester
- 21440: Management Skills  
- 91326: Analytical Biochemistry  
- 91401: Introductory Haematology and Immunology  
- 21036: Managing Strategic Performance  

#### Year 4

#### Autumn semester
- 21512: Understanding Organisations: Theory and Practice  
- 21037: Managing Employee Relations  
- Select one of the following:  
  - 91359: Advanced Immunology  
  - 91335: Molecular Biology 2  
  - 91369: Biobusiness and Environmental Biotechnology  

#### Spring semester
- 21407: Strategic Human Resource Management  
- 21505: Human Resource Management (Capstone)  
- 91368: Bioreactors and Bioprocessing  
- 91144: Plant Biotechnology
Environmental Biology major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Autumn semester</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>22107 Accounting for Business Decisions A</td>
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<tr>
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<td>26100 Integrating Business Perspectives</td>
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<td></td>
<td>91107 The Biosphere</td>
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<td>21129 Managing People and Organisations</td>
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<td>6cp</td>
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<tr>
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<td>65621</td>
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<td>Human Resource Management</td>
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<tr>
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<td>Cell Biology and Genetics</td>
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<td>Statistical Design and Analysis</td>
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<td>21440</td>
<td>Management Skills</td>
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<td>91145</td>
<td>Environmental Protection and Management</td>
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<td>91370</td>
<td>Semi-arid Ecology</td>
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<tr>
<td>91371</td>
<td>Forest and Mountain Ecology</td>
</tr>
<tr>
<td>91163</td>
<td>Alpine and Lowland Ecology</td>
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<tr>
<td>21036</td>
<td>Managing Strategic Performance</td>
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<table>
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<tr>
<th>Year 4</th>
<th>Autumn semester</th>
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<tbody>
<tr>
<td>21512</td>
<td>Understanding Organisations: Theory and Practice</td>
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<td>21037</td>
<td>Managing Employee Relations</td>
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<tr>
<td>91121</td>
<td>Aquatic Ecology</td>
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<td>Spring semester</td>
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<tr>
<td>21407</td>
<td>Strategic Human Resource Management</td>
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<tr>
<td>21505</td>
<td>Human Resource Management (Capstone)</td>
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<td>79023</td>
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<td>Select 6 credit points from the following options:</td>
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<td>91155</td>
<td>Stream and Lake Assessment</td>
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<td>91370</td>
<td>Semi-arid Ecology</td>
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<td>Alpine and Lowland Ecology</td>
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Marine Biology major

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<tr>
<th>Year 1</th>
<th>Autumn semester</th>
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<tr>
<td>22107</td>
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<td>Integrating Business Perspectives</td>
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<td>91107</td>
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<td>65111</td>
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<td>21129 Managing People and Organisations</td>
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<tr>
<td>24108 Marketing Foundations</td>
<td>6cp</td>
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<td>91123 Biocomplexity</td>
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<table>
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<tbody>
<tr>
<td>23115</td>
<td>Economics for Business</td>
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<td>Business Statistics</td>
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<td>91110</td>
<td>Experimental Design and Sampling</td>
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<td>Ecology</td>
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<td>Spring semester</td>
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<td>Fundamentals of Business Finance</td>
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<td>91157</td>
<td>Marine Communities</td>
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<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
</tr>
<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
</tr>
</tbody>
</table>
### Year 3

**Autumn semester**
- 21510 The Global Context of Management 6cp
- 21555 Human Resource Management 6cp
- 91161 Cell Biology and Genetics 6cp
- 33116 Statistical Design and Analysis 6cp

**Spring semester**
- 21440 Management Skills 6cp
- 91145 Environmental Protection and Management 6cp
- 91126 Coral Reef Ecosystems 6cp
- 21036 Managing Strategic Performance 6cp

**Year 4**

**Autumn semester**
- 21512 Understanding Organisations: Theory and Practice 6cp
- 91118 Fisheries Resources 6cp
- Select one of the following: 6cp
  - 91120 GIS and Remote Sensing 6cp
  - 66513 Marine Geosciences 6cp

**Spring semester**
- 21407 Strategic Human Resource Management 6cp
- 21505 Human Resource Management (Capstone) 6cp
- 91156 Marine Primary Producers 6cp

### Mathematics major

**Year 1**

**Autumn semester**
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp
- 35103 Introduction to Linear Dynamical Systems 6cp
- 35151 Introduction to Statistics 6cp

**Spring semester**
- 21129 Managing People and Organisations 6cp
- 24108 Marketing Foundations 6cp
- 35102 Introduction to Analysis and Multivariable Calculus 6cp
- 35100 Introduction to Sample Surveys 6cp

**Year 2**

**Autumn semester**
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp
- 35140 Introduction to Quantitative Management 6cp
- 35212 Computational Linear Algebra 6cp

**Spring semester**
- 25300 Fundamentals of Business Finance 6cp
- 35335 Regression Analysis 6cp
- 35111 Applications of Discrete Mathematics 6cp
- 22207 Accounting for Business Decisions B 6cp

**Year 3**

**Autumn semester**
- 21510 The Global Context of Management 6cp
- 21555 Human Resource Management 6cp
- 35363 Stochastic Models 6cp
- 35241 Optimisation in Quantitative Management 6cp

**Spring semester**
- 21440 Management Skills 6cp
- 35231 Differential Equations 6cp
- 21036 Managing Strategic Performance 6cp
- Select 6 credit points from the following options: 6cp
  - 35322 Advanced Analysis 6cp
  - 35335 Mathematical Methods 6cp
  - 35340 Quantitative Management Practice 6cp
  - 35342 Nonlinear Methods in Quantitative Management 6cp
  - 35344 Network and Combinatorial Optimisation 6cp
  - 35355 Quality Control 6cp
  - 35361 Stochastic Processes 6cp
  - 35391 Seminar (Mathematics) 6cp
  - 35393 Seminar (Statistics) 6cp

### Medical Science major

**Year 1**

**Autumn semester**
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 21129 Managing People and Organisations 6cp
- 24108 Marketing Foundations 6cp
- 91400 Human Anatomy and Physiology 6cp
- 65212 Chemistry 2 6cp

**Year 2**

**Autumn semester**
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp
- 91703 Physiological Systems 6cp
- 91314 General Microbiology 6cp

**Spring semester**
- 25300 Fundamentals of Business Finance 6cp
- 68041 Physical Aspects of Nature 6cp
- 22207 Accounting for Business Decisions B 6cp
- 91239 Human Pathophysiology 6cp

**Year 3**

**Autumn semester**
- 21510 The Global Context of Management 6cp
- 21555 Human Resource Management 6cp
- 91707 Pharmacology 1 6cp
- 91320 Metabolic Biochemistry 6cp

**Spring semester**
- 21440 Management Skills 6cp
- 21036 Managing Strategic Performance 6cp
- 91705 Medical Devices and Diagnostics 6cp
- Select 6 credit points from the following options: 6cp
  - 91132 Molecular Biology 1 6cp
  - 91330 Epidemiology and Public Health Microbiology 6cp
  - 91401 Introductory Haematology and Immunology 6cp
**Year 4**

**Autumn semester**
- 21037 Managing Employee Relations 6cp
- 21512 Understanding Organisations: Theory and Practice 6cp
- 91706 Neuroscience 6cp
- Select 6 credit points from the following options: 6cp
  - 91335 Molecular Biology 2 6cp
  - 91338 Clinical Bacteriology 6cp
  - 91344 Medical and Diagnostic Biochemistry 6cp
  - 91358 Advanced Haematology 6cp
  - 91359 Advanced Immunology 6cp

**Spring semester**
- 21407 Strategic Human Resource Management 6cp
- 21505 Human Resource Management (Capstone) 6cp
- 91708 Medical and Applied Physiology 6cp
- 91709 Pharmacology 2 6cp

**Nanotechnology major**

**Year 1**

**Autumn semester**
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp
- 33190 Mathematical Modelling for Science 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 21129 Managing People and Organisations 6cp
- 24108 Marketing Foundations 6cp
- 33290 Statistics and Mathematics for Science 6cp
- 65212 Chemistry 2 6cp

**Year 2**

**Autumn semester**
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp
- 68101 Foundations of Physics 6cp
- 33350 Mathematics for Physical Science 6cp

**Spring semester**
- 25300 Fundamentals of Business Finance 6cp
- 68201 Physics in Action 6cp
- 68070 Introduction to Materials 6cp
- 22207 Accounting for Business Decisions B 6cp

**Year 3**

**Autumn semester**
- 21510 The Global Context of Management 6cp
- 21555 Human Resource Management 6cp
- 68075 Nanomaterials 6cp
- 65307 Physical Chemistry 1 6cp

**Spring semester**
- 21440 Management Skills 6cp
- 21036 Managing Strategic Performance 6cp
- 68315 Imaging Science 6cp
- 68413 Quantum Physics 6cp

**Year 4**

**Autumn semester**
- 21512 Understanding Organisations: Theory and Practice 6cp
- 21037 Managing Employee Relations 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 67509 Molecular Nanotechnology 6cp

**Spring semester**
- 21407 Strategic Human Resource Management 6cp
- 21505 Human Resource Management (Capstone) 6cp
- Select 12 credit points from the following options: 12cp
  - 67510 Surface Processes 6cp
  - 68513 Optics and Nanophotonics 6cp
  - 91140 BioNanotechnology 6cp
  - 68320 Scanning Probe and Electron Microscopy 6cp

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**Honours**

An honours program in each science discipline is available to eligible students.

**Transfer between UTS courses**

There is provision for students already enrolled in a Bachelor of Science or a Bachelor of Business degree to transfer to this combined degree program, provided they meet the entry requirement for the combined degree.

Students wishing to transfer from the combined degree program to the Bachelor of Business (C10026) (see page 131) single degree program, and whose ATAR is less than the current entry rank for the Bachelor of Business, are required to apply for admission through the Universities Admissions Centre in the non-current school leaver category.

**Professional recognition**

Depending on disciplines chosen, students may be eligible for entry to the relevant professional associations.

**Other information**

Further information is available from:
- UTS Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C10163v4 Bachelor of Medical Science Bachelor of Business**

**Award(s):** Bachelor of Medical Science (BMedSc) Bachelor of Business (BBus)

**UAC code:** 699175  
**CRICOS code:** 040712C  
**Commonwealth-supported place:** Yes  
**Load credit points:** 192  
**Course EFTSL:** 4  
**Location:** City and Kuring-gai campuses

**Note(s)**

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

**Overview**

This course is designed to produce graduates who are prepared for scientific practice or business and management in health and medical businesses or institutions.

The course offers opportunities in the growth area of health services and management.

**Career options**

Career options include health services and management in government, hospitals, industry and medical research organisations.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Mathematics; English; and at least one science subject.
Course duration and attendance
The course is offered over four years full time. Full-time attendance is approximately 20 hours each week on campus. Students may also complete the course part-time, usually at the rate of two subjects a semester (50 per cent load), taking eight years to complete. Part-time students may need to attend science classes for at least one half-day a week, in addition to evening classes.

Course structure
Students are required to complete 192 credit points of study, comprising 96 credit points of medical science subjects and 96 credit points of business subjects. Refer to the Bachelor of Business (C10026) (see page 131) entry for the major areas of study.

Graduation from the medical science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Medical Science prior to completion of the business component of the combined degree must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they must complete all requirements for the stand-alone single degree version.

Similarly, if a student wishes to graduate from the business component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Business (C10026) (see page 131) single degree program where they must complete all requirements for the stand-alone single degree version.

Course completion requirements
CBK90169 Major choice (Business) 48cp
STM00273 Core subjects (Business) 48cp
STM90349 Core subjects (Medical Science) 96cp
Total 192cp

Course program
The program shown is for a full-time student with a Human Resource Management major.

Year 1

**Autumn semester**
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp

**Spring semester**
- 21129 Managing People and Organisations 6cp
- 24108 Marketing Foundations 6cp
- 91400 Human Anatomy and Physiology 6cp
- 65212 Chemistry 2 6cp

Year 2

**Autumn semester**
- 23113 Economics for Business 6cp
- 26134 Business Statistics 6cp
- 919703 Physiological Systems 6cp
- 91314 General Microbiology 6cp

**Spring semester**
- 25300 Fundamentals of Business Finance 6cp
- 68014 Physical Aspects of Nature 6cp
- 22207 Accounting for Business Decisions B 6cp
- 91239 Human Pathophysiology 6cp

Year 3

**Autumn semester**
- 21555 Human Resource Management 6cp
- 21510 The Global Context of Management 6cp
- 91707 Pharmacology 1 6cp
- 91320 Medical Imaging 6cp

**Spring semester**
- 21440 Management Skills 6cp
- 91705 Medical Devices and Diagnostics 6cp
- 21036 Managing Strategic Performance 6cp

Select 6 credit points from the following options: 6cp
- 91132 Molecular Biology 1 6cp
- 91330 Epidemiology and Public Health Microbiology 6cp
- 91401 Introductory Haematology and Immunology 6cp

Year 4

**Autumn semester**
- 21512 Understanding Organisations: Theory and Practice 6cp
- 91320 Medical Imaging 6cp
- 91338 Clinical Bacteriology 6cp
- 91344 Medical and Diagnostic Biochemistry 6cp
- 91358 Advanced Haematology 6cp
- 91359 Advanced Immunology 6cp
- 91403 Medical Imaging 6cp

**Spring semester**
- 21407 Strategic Human Resource Management 6cp
- 21505 Human Resource Management (Capstone) 6cp
- 91709 Medical and Applied Physiology 6cp
- 91709 Pharmacology 2 6cp

Honours
An honours program is available to eligible students.

Transfer between UTS courses
There is provision for students already enrolled in a Bachelor of Medical Science or a Bachelor of Business degree to transfer to this combined degree program, provided they meet the entry requirements for the combined degree.

Students wishing to transfer from the combined degree program to the Bachelor of Business (C10026) (see page 131) single degree program, and whose ATAR is less than the current entry rank for the Bachelor of Business, are required to apply for admission through the Universities Admissions Centre in the non-current school leaver category.

Professional recognition
Depending on disciplines chosen, students may be eligible for entry to the relevant professional associations.

Other information
Further information is available from:
- UTS Student Centre telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C10164v5 Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies
Award(s): Bachelor of Health Science in Traditional Chinese Medicine (BHithSc)
Bachelor of Arts in International Studies (BA)
CRICOS code: 067517F
Commonwealth-supported place?: Yes
Load credit points: 288
Course EFTSL: 6
Location: City campus

Notes
This course is only offered to new international students. Local students in an existing UTS course may be able to transfer into it.

Entry to this degree for local students is by internal transfer from the Bachelor of Health Science in Traditional Chinese Medicine (C10186) (see page 218).

Students undertaking this degree may only study China as their international studies major. For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
This combined degree program provides students with greater exposure to and understanding of Chinese culture and a working knowledge of Chinese. Students complete four consecutive semesters...
of study of Chinese language and culture before proceeding to China for an academic year of study at a university or institution of higher education.

The course has a strong history of delivering highly skilled practitioners and potential researchers. Students complete 1050 clinical hours, starting in the first semester first year and are well equipped for private practice. Opportunity exists for clinical internship in China and Korea, or undertaking the international studies program by learning Mandarin and spending a year studying in China.

Career options
Career options include acupuncture or Chinese herbal medicine practitioner in private or community health services. This combined program makes it more possible for graduates to practise outside Australia.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Entry to this degree is by internal transfer from the Bachelor of Health Science in Traditional Chinese Medicine (C10186) (see page 218). Students do not need to have previously studied Chinese to successfully complete this program. There is a range of entry levels to the Chinese language and culture program.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Students in the Bachelor of Health Science in Traditional Chinese Medicine apply during Year 2 for transfer to this course, commencing in Year 3.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
This combined degree is offered on a six-year, full-time basis. This also involves students practising their skills in the UTS acupuncture and herbal medicine clinics as required during the course. Students spend their fifth year of study at a Chinese university.

Course structure
Students are required to complete 288 credit points of study, comprising 192 credit points in traditional Chinese medicine (TCM) and 96 credit points in Chinese studies. The Bachelor of Arts in International Studies (see page 92) requires undergraduates to study a region or country major over a minimum of three years. Students undertaking this degree may only study China as their international studies major. The international studies component (96 credit points) includes 32 credit points (four 8-credit-point subjects) of instruction in Chinese language and culture, 8 credit points (one subject) of study of foundations in international studies, 8 credit points (one subject) of study of contemporary China and 48 credit points (two semesters) of study at a university or institution of higher education in China. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the TCM component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Health Science in Traditional Chinese Medicine prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Health Science in Traditional Chinese Medicine (C10186) (see page 218) single degree program where they must complete all requirements for the stand-alone single degree version.

Overseas study
Students spend their fifth year of study at a university overseas.

Industrial training/professional practice
Through working clinics, students gain practical experience treating patients under the guidance of qualified health professionals. The opportunity exists for clinical internship in China.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91614</td>
<td>Evaluating TCM: Theory, Practice and Research 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91615</td>
<td>Evaluating TCM: Theory, Practice and Research 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99567</td>
<td>Introduction to Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99584</td>
<td>Clinical Features of Disease</td>
<td>6cp</td>
</tr>
<tr>
<td>99618</td>
<td>Chinese Diagnostic System 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91610</td>
<td>Medical Classics and the History of Chinese Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99621</td>
<td>Chinese Diagnostic System 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91611</td>
<td>Clinical Practicum (Therapy and Diagnosis)</td>
<td>6cp</td>
</tr>
<tr>
<td>99630</td>
<td>Clinical Practice 1 (TCM)</td>
<td>12cp</td>
</tr>
<tr>
<td>99631</td>
<td>Clinical Practice 2 (TCM)</td>
<td>12cp</td>
</tr>
<tr>
<td>99665</td>
<td>Chinese Medicine Foundations 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99666</td>
<td>Chinese Medicine Foundations 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99641</td>
<td>Point Location and Acupuncture Anatomy</td>
<td>6cp</td>
</tr>
<tr>
<td>99667</td>
<td>Clinical Theory and Clinic Level 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99668</td>
<td>Clinic Level 2 and Acupuncture Techniques 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99644</td>
<td>Clinic Level 3 and Acupuncture Techniques 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99645</td>
<td>Clinic Level 4 and Acupuncture Techniques 3</td>
<td>6cp</td>
</tr>
<tr>
<td>99646</td>
<td>Clinic Level 5 and Acupuncture Microsystems</td>
<td>6cp</td>
</tr>
<tr>
<td>99647</td>
<td>Clinic Level 6</td>
<td>6cp</td>
</tr>
<tr>
<td>92227</td>
<td>Communication for the Complementary Therapist</td>
<td>6cp</td>
</tr>
<tr>
<td>91528</td>
<td>Health and Homeostasis</td>
<td>6cp</td>
</tr>
<tr>
<td>99650</td>
<td>Pharmacology of Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99651</td>
<td>Chinese Herbal Formula 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99652</td>
<td>Chinese Herbal Formula 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91529</td>
<td>Pathophysiology and Pharmacology 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91530</td>
<td>Pathophysiology and Pharmacology 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91613</td>
<td>Professional Issues in Traditional Chinese Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99656</td>
<td>Disease States for Traditional Chinese Medicine 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99657</td>
<td>Disease States for Traditional Chinese Medicine 2</td>
<td>6cp</td>
</tr>
<tr>
<td>CBB90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>91527</td>
<td>Pathophysiology and Pharmacology 3</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 288cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course program
An example program is shown below.

Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>99665</td>
<td>Chinese Medicine Foundations 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99641</td>
<td>Point Location and Acupuncture Anatomy</td>
<td>6cp</td>
</tr>
<tr>
<td>99667</td>
<td>Clinical Theory and Clinic Level 1</td>
<td>6cp</td>
</tr>
<tr>
<td>92227</td>
<td>Communication for the Complementary Therapist</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>99567</td>
<td>Introduction to Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99668</td>
<td>Clinic Level 2 and Acupuncture Techniques 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99650</td>
<td>Pharmacology of Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>91528</td>
<td>Health and Homeostasis</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>99618</td>
<td>Chinese Diagnostic System 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99644</td>
<td>Clinic Level 3 and Acupuncture Techniques 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99650</td>
<td>Pharmacology of Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>91529</td>
<td>Pathophysiology and Pharmacology 1</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>99621</td>
<td>Chinese Diagnostic System 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99645</td>
<td>Clinic Level 4 and Acupuncture Techniques 3</td>
<td>6cp</td>
</tr>
<tr>
<td>99651</td>
<td>Chinese Herbal Formula 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91530</td>
<td>Pathophysiology and Pharmacology 2</td>
<td>6cp</td>
</tr>
</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

The program is designed to educate and train graduates for careers in immersion in another language and culture. The medical science degree combines a professional degree in medical science with an overview of related professional careers. Multinational pharmaceutical companies look to medical science graduates to work in drug registration, clinical trials coordination, as technical or marketing representatives and as policy analysts.

Career options
Career options include positions in government departments, private and public hospitals and public health units, nationally and internationally.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Medical Science (C10184) (see page 217). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying overseas must enrol in a course that provides an on-campus component. Eligibility for admission does not guarantee an offer of a place.

Assumed knowledge
Mathematics; English; and two science subjects. There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
This course is offered over five years full time. Attendance involves approximately 20 hours each week on campus. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Eligibility for admission does not guarantee offer of a place.

C10167v3 Bachelor of Medical Science Bachelor of Arts in International Studies

Award(s): Bachelor of Medical Science (BMedSc) Bachelor of Arts in International Studies (BA)

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Medical Science (C10184) (see page 217). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

Career options
Career options include positions in government departments, private and public hospitals and public health units, nationally and internationally.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Medical Science (C10184) (see page 217). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying overseas must enrol in a course that provides an on-campus component. Eligibility for admission does not guarantee an offer of a place.

Assumed knowledge
Mathematics; English; and two science subjects. There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
This course is offered over five years full time. Attendance involves approximately 20 hours each week on campus. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to medical science and 96 credit points relating to international studies. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program. Graduation from the medical science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Medical Science prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Medical Science (C10184) (see page 217) single degree program where they must complete all requirements for the stand-alone single degree version.

Overseas study
Students spend their fourth year of study at a university overseas.
### Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
<td>6</td>
</tr>
<tr>
<td>STM90680</td>
<td>Foundation stream (Life and Environmental Sciences)</td>
<td>48</td>
</tr>
<tr>
<td>STM90684</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics</td>
<td>6</td>
</tr>
<tr>
<td>91706</td>
<td>Neuroscience</td>
<td>6</td>
</tr>
<tr>
<td>91707</td>
<td>Pharmacology 1</td>
<td>6</td>
</tr>
<tr>
<td>91708</td>
<td>Medical and Applied Physiology</td>
<td>6</td>
</tr>
<tr>
<td>91709</td>
<td>Pharmacology 2</td>
<td>6</td>
</tr>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96</td>
</tr>
<tr>
<td>91703</td>
<td>Physiological Systems</td>
<td>6</td>
</tr>
<tr>
<td>CBK90582</td>
<td>Elective 4</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total 240cp</td>
<td></td>
</tr>
</tbody>
</table>

### Course program

The example program shown is for a student who has chosen the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

#### Year 1

**Autumn semester**

- 65111 Chemistry 1: 6cp
- 91107 The Biosphere: 6cp
- 91161 Cell Biology and Genetics: 6cp
- 33116 Statistical Design and Analysis: 6cp

**Spring semester**

- 65212 Chemistry 2: 6cp
- 91123 Biocomplexity: 6cp
- 91400 Human Anatomy and Physiology: 6cp
- 68041 Physical Aspects of Nature: 6cp

#### Year 2

**Autumn semester**

- 97601 Foundations in International Studies: 8cp
- 97601 German Language and Culture 1: 8cp
- 91320 Metabolic Biochemistry: 6cp
- 91314 General Microbiology: 6cp

**Spring semester**

- 91312 Molecular Biology 1: 6cp
- 97602 German Language and Culture 2: 8cp
- 91239 Human Pathophysiology: 6cp

#### Year 3

**Autumn semester**

- 97603 German Language and Culture 3: 8cp
- CBK90579 Elective 1: 6cp

**Spring semester**

- 97604 German Language and Culture 4: 8cp
- 97642 Contemporary Germany: 8cp
- Select 12 credit points from the following options: 12cp
  - Analytical Biochemistry: 6cp
  - Epidemiology and Public Health Microbiology: 6cp
  - Introductory Haematology and Immunology: 6cp

#### Year 4

**Autumn semester**

- 977420 In-country Study 1: Germany: 24cp

**Spring semester**

- 978420 In-country Study 2: Germany: 24cp

#### Year 5

**Autumn semester**

- 91706 Neuroscience: 6cp
- 91707 Pharmacology 1: 6cp
- Select 12 credit points from the following options: 12cp
  - Medical Imaging: 6cp
  - Elective 2: 6cp
  - Elective 3: 6cp

**Spring semester**

- 91705 Medical Devices and Diagnostics: 6cp
- 91708 Medical and Applied Physiology: 6cp
- CBK90582 Elective 4: 6cp

### Honours

The Bachelor of Medical Science (Honours) is available as an additional year to meritorious students.

### Other information

Further information is available from:
- UTS Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

### C10168v3 Bachelor of Biotechnology Bachelor of Arts in International Studies

**Award(s):** Bachelor of Biotechnology (BBiotech) Bachelor of Arts in International Studies (BA)

**UTS code:** B10218
**CRICOS code:** 00004C
**Load credit points:** 240
**Course EFTSL:** 5
**Location:** City campus

**Note(s)**

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

### Overview

This degree combines a professional degree in biotechnology with immersion in another language and culture. The biotechnology program provides students with a broad knowledge of modern biotechnology, with an emphasis on DNA technology, cell biology and up-to-date industrial applications, plus a wide range of practical skills, supplemented with relevant aspects of ethics law and business.

Biotechnology is a global industry and this course, with its strong professional, international and industry focus, aims to provide students with an increased awareness of the international contexts of the biotechnology industry and prepare students to pursue national and international biotechnology-related professional careers.

### Career options

Career options include bioremediation of contaminated sites, brewing beer, engineering agricultural crops, growing yeast for bread, managing a biotechnology company, manufacturing drugs or medicine, mining uranium, regulating the expanding bioscience industries, researching anti-cancer drugs, teaching science, trading in biotechnology shares or writing about science.

Graduates have the opportunity to work overseas or in Australia in organisations with international networks or links.

### Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Biotechnology (C10172) (see page 215). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

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Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; English; and at least one science subject. There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
This course is offered over five years full time. Attendance involves approximately 20 hours each week on campus. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to biotechnology and 96 credit points relating to international studies. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the biotechnology component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Biotechnology prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Biotechnology (C10172) (see page 215) single degree program where they must complete all requirements for the stand-alone single degree version.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
CBK90005 Country major choice  96cp
STM90680 Foundation stream (Life and Environmental Sciences)  48cp
STM90684 Core subjects (Medical and Molecular Biology)  48cp
91142 Biotechnology  6cp
91144 Plant Biotechnology  6cp
91335 Molecular Biology 2  6cp
91368 Bioreactors and Bioprocessing  6cp
91369 Biobusiness and Environmental Biotechnology  6cp
91359 Advanced Immunology  6cp
CBK90582 Elective 4  6cp
Select 6 credit points from the following options:  6cp
91129 Transfusion Science  6cp
91345 Biochemistry, Genes and Disease  6cp
91352 Parasitology  6cp
Total 240cp

Course program
The program shown is for a student who has chosen the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Year 1

Autumn semester
91161 Cell Biology and Genetics  6cp
65111 Chemistry 1  6cp
91107 The Biosphere  6cp
33116 Statistical Design and Analysis  6cp

Spring semester
65212 Chemistry 2  6cp
68041 Physical Aspects of Nature  6cp
91123 Biocomplexity  6cp
91400 Human Anatomy and Physiology  6cp

Year 2

Autumn semester
976001 Foundations in International Studies  8cp
91320 Metabolic Biochemistry  6cp
91314 General Microbiology  6cp
97601 German Language and Culture 1  8cp

Spring semester
97602 German Language and Culture 2  8cp
91132 Molecular Biology 1  6cp
Select 12 credit points from the following options:  12cp
91326 Analytical Biochemistry  6cp
91330 Epidemiology and Public Health Microbiology  6cp
91401 Introductory Haematology and Immunology  6cp

Year 3

Autumn semester
97618 German Language and Culture 3  8cp
CBK90580 Elective 2  6cp
91142 Biotechnology  6cp
CBK90579 Elective 1  6cp

Spring semester
97604 German Language and Culture 4  8cp
976421 Contemporary Germany  8cp
CBK90581 Elective 3  6cp

Year 4

Autumn semester
977420 In-country Study 1: Germany  24cp

Spring semester
978420 In-country Study 2: Germany  24cp

Year 5

Autumn semester
91369 Biobusiness and Environmental Biotechnology  6cp
91335 Molecular Biology 2  6cp
91359 Advanced Immunology  6cp
CBK90582 Elective 4  6cp

Spring semester
91368 Bioreactors and Bioprocessing  6cp
91144 Plant Biotechnology  6cp
Select 6 credit points from the following options:  6cp
91345 Biochemistry, Genes and Disease  6cp
91129 Transfusion Science  6cp
91352 Parasitology  6cp

Honours
The Bachelor of Biotechnology (Honours) (C09022) (see page 113) is available to eligible students with an additional one year of full-time study.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Overview
This course is designed to produce graduates who are prepared for entry into business and management in science-based businesses or institutions. This course allows graduates to choose between a career in business or biotechnological science. It is particularly suitable for a career in the rapidly expanding and profitable biotechnology business sector where both disciplines are required.

Career options
Career options include manager or scientist in a bio-analytical lab, bio-business, CSIRO, government biotechnology support, a regulatory agency, stockbroking, vaccine manufacture or wine production. Graduates can also be an analyst, biotechnologist, marketer, product developer or research scientist with industry or scientific research organisations.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics, English; and at least one science subject.

Course duration and attendance
Students can complete the course over four years full time. Full-time attendance involves approximately 16 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking eight years to complete. Part-time students may need to attend science classes for at least one half-day a week, in addition to evening classes.

Course structure
The course comprises a total of 192 credit points, made up of 96 credit points of biotechnology subjects and 96 credit points of business subjects. Graduation from the biotechnology component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Biotechnology prior to completion of the business component of the combined degree must apply for transfer to the Bachelor of Biotechnology (C10127) (see page 215) single degree program where they must complete all requirements for the stand-alone single degree.

Similarly, if a student wishes to graduate from the business component of the combined degree prior to completion of the science component they must apply for transfer to the Bachelor of Business (C10026) (see page 131) single degree program where they must complete all requirements for the stand-alone single degree.

Course completion requirements
CBK90169 Major choice (Business)  48cp
STM90273 Core subjects (Business)  48cp
STM90284 Core subjects (Biotechnology)  96cp
Total 192cp

Course program
The program shown is for a full-time student with a Human Resource Management major.

Year 1

Autumn semester
22107 Accounting for Business Decisions A  6cp
26100 Integrating Business Perspectives  6cp
91161 Cell Biology and Genetics  6cp
65111 Chemistry 1  6cp

Spring semester
21129 Managing People and Organisations  6cp
24108 Marketing Foundations  6cp
91400 Human Anatomy and Physiology  6cp
65122 Chemistry 2  6cp

Year 2

Autumn semester
23115 Economics for Business  6cp
26134 Business Statistics  6cp
91320 Metabolic Biochemistry  6cp
91314 General Microbiology  6cp

Spring semester
25300 Fundamentals of Business Finance  6cp
91132 Molecular Biology I  6cp
91330 Epidemiology and Public Health Microbiology  6cp
22207 Accounting for Business Decisions B  6cp

Year 3

Autumn semester
21555 Human Resource Management  6cp
21510 The Global Context of Management  6cp
91142 Biotechnology  6cp
91703 Physiological Systems  6cp

Spring semester
21440 Management Skills  6cp
91326 Analytical Biochemistry  6cp
91401 Introductory Haematology and Immunology  6cp
21036 Managing Strategic Performance  6cp

Year 4

Autumn semester
21512 Understanding Organisations: Theory and Practice  6cp
21037 Managing Employee Relations  6cp
Select one of the following:  6cp
91359 Advanced Immunology  6cp
91335 Molecular Biology 2  6cp
91369 Biobusiness and Environmental Biotechnology  6cp

Spring semester
21407 Strategic Human Resource Management  6cp
21505 Human Resource Management (Capstone)  6cp
91368 Bioreactors and Bioprocessing  6cp
91144 Plant Biotechnology  6cp

Honours
A Bachelor of Biotechnology (Honours) (C90022) (see page 113) is available to eligible students.

Transfer between UTS courses
There is provision for students already enrolled in a Bachelor of Biotechnology or a Bachelor of Business degree to transfer to this combined degree program, provided they meet the entry requirements for the combined degree.
Students wishing to transfer from the combined degree program to the Bachelor of Business (C10026) (see page 131) single degree program, and whose ATAR is less than the current entry rank for the Bachelor of Business, are required to apply for admission through the Universities Admissions Centre in the non-current school leaver category.

**Professional recognition**

Depending on disciplines chosen, students may be eligible for entry to the relevant professional associations.

**Other information**

Further information is available from:

UTS Student Centre

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

### C10172v5 Bachelor of Biotechnology

**Award(s):** Bachelor of Biotechnology (BBiotech)

**UAC code:** 657065

**CRICOS code:** 026806C

**Commonwealth-supported place?**: Yes

**Load credit points:** 144

**Course EFTSL:** 3

**Location:** City campus

**Note(s)**

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

**Overview**

This course provides students with a broad knowledge of modern biotechnology with an emphasis on DNA technology, cell biology and up-to-date industrial applications, plus a wide range of practical skills, supplemented with relevant aspects of ethics law and business.

Biotechnology is the science of the future, with high employment rates due to a strong professional and industry focus. Graduates of this course gain a professional qualification in biological science and a firm basis in the industrial aspects of biotechnology. This is a comprehensive biotechnology course with a wide range of options for advanced specialisation.

**Career options**

Career options include biotechnological research, development and production positions in agricultural, biomedical, chemical, communications, energy, environmental, manufacturing, medical and pharmaceutical companies. Graduates can innovate, invent or research biotechnological science or start their own company to capitalise on their ideas.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Mathematics, English; and at least one science subject.

HSC Mathematics Extension 1 and Chemistry are recommended.

### Course duration and attendance

Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

**Course structure**

Students must complete a total of 144 credit points, made up of 120 credit points of core subjects and 24 credit points of elective subjects. The elective subjects enable students to increase their expertise in other areas of science or other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects.

Students must satisfactorily complete all core subjects and the required number of credit points of elective/second major subjects for award of the degree.

### Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90680</td>
<td>Foundation stream (Life and Environmental Sciences)</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90684</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48cp</td>
</tr>
<tr>
<td>91142</td>
<td>Biotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91144</td>
<td>Plant Biotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91335</td>
<td>Molecular Biology 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91368</td>
<td>Bioreactors and Bioprocessing</td>
<td>6cp</td>
</tr>
<tr>
<td>91369</td>
<td>Biobusiness and Environmental Biotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK090582</td>
<td>Elective 4</td>
<td>6cp</td>
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Select 12 credit points from the following options: 12cp

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<thead>
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<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>91129</td>
<td>Transfusion Science</td>
<td>6cp</td>
</tr>
<tr>
<td>91345</td>
<td>Biochemistry, Genes and Disease</td>
<td>6cp</td>
</tr>
<tr>
<td>91352</td>
<td>Parasitology</td>
<td>6cp</td>
</tr>
<tr>
<td>91359</td>
<td>Advanced Immunology</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 144cp

### Course program

The program shown assumes full-time attendance, commencing in Autumn semester.

#### Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>69111</td>
<td>Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91107</td>
<td>The Biosphere</td>
<td>6cp</td>
</tr>
<tr>
<td>91161</td>
<td>Cell Biology and Genetics</td>
<td>6cp</td>
</tr>
<tr>
<td>33116</td>
<td>Statistical Design and Analysis</td>
<td>6cp</td>
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</table>

**Spring semester**

<table>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>69212</td>
<td>Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91123</td>
<td>Biocomplexity</td>
<td>6cp</td>
</tr>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>68041</td>
<td>Physical Aspects of Nature</td>
<td>6cp</td>
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</table>

#### Year 2

**Autumn semester**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>91314</td>
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<tr>
<td>91320</td>
<td>Metabolic Biochemistry</td>
<td>6cp</td>
</tr>
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<td>91142</td>
<td>Biotechnology</td>
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<tr>
<td>CBK090579</td>
<td>Elective 1</td>
<td>6cp</td>
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**Spring semester**

<table>
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<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91132</td>
<td>Molecular Biology 1</td>
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<tr>
<td>CBK090580</td>
<td>Elective 2</td>
<td>6cp</td>
</tr>
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</table>

Select 12 credit points from the following options: 12cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91326</td>
<td>Analytical Biochemistry</td>
<td>6cp</td>
</tr>
<tr>
<td>91330</td>
<td>Epidemiology and Public Health Microbiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91401</td>
<td>Introductory Haematology and Immunology</td>
<td>6cp</td>
</tr>
</tbody>
</table>

#### Year 3

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91355</td>
<td>Molecular Biology 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91369</td>
<td>Biobusiness and Environmental Biotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91359</td>
<td>Advanced Immunology</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK090581</td>
<td>Elective 3</td>
<td>6cp</td>
</tr>
</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics, any two units of English; and any two units of science. HSC Mathematics Extension 1 and Chemistry are recommended.

Course duration and attendance

Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

Course structure

The course comprises 144 credit points of study. Stages 1-4 (the first two years) of the program are similar, though not identical, to the Bachelor of Biomedical Science (C10115) (see page 172). However, stages 5-6 (the final year) are strongly focused on forensic studies.

Course completion requirements

Select 24 credit points from the following options: 24cp

- 65111 Chemistry 1 6cp
- 91161 Cell Biology and Genetics 6cp
- 68041 Physical Aspects of Nature 6cp
- 33116 Statistical Design and Analysis 6cp
- 91400 Human Anatomy and Physiology 6cp
- 65212 Chemistry 2 6cp
- 91123 Biocomplexity 6cp
- 65242 Principles of Forensic Science 6cp
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp
- 91500 Histology 6cp
- 35255 Forensic Statistics 6cp
- 91132 Molecular Biology 1 6cp
- 91326 Analytical Biochemistry 6cp
- 91402 Anatomical Pathology 6cp
- 91137 DNA Profiling 6cp
- 91138 Investigation of Human Remains 6cp
- 65342 Crime Scene Investigation 6cp
- 91139 Complex Forensic Cases (Biology) 6cp
- 79028 Complex Forensic Cases (Law for Biology) 6cp

Select 6 credit points from the following options: 6cp
- 91400 Human Anatomy and Physiology 6cp
- 65212 Chemistry 2 6cp
- 91123 Biocomplexity 6cp
- 65242 Principles of Forensic Science 6cp

Note(s)

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview

This course provides a firm foundation in the biomedical sciences and their applications to forensic investigations involving human or other biological evidence. It brings together extensive theoretical knowledge with advanced laboratory and problem-solving skills in forensic and biomedical science, as well as legal aspects of forensic science practice and crime scene investigation.

This is a hands-on course that draws on UTS's strong expertise in both forensic science and biomedical science to produce graduates prepared for employment in either field. World-class facilities and equipment are combined with internationally recognised teaching and access to leading forensic scientists. The course has strong links with federal and state police services and government forensic laboratories.

Career options

Career options include positions as scene of crime officers, forensic laboratory scientists in federal or state law enforcement agencies or private DNA testing laboratories and biomedical scientists in private or public medical diagnostic, state hospitals providing forensic services or research laboratories.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.
### Year 2
#### Autumn semester
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp
- 91300 Histology 6cp
- 35255 Forensic Statistics 6cp

#### Spring semester
- 91132 Molecular Biology 1 6cp
- 91326 Analytical Biochemistry 6cp
- 91402 Anatomical Pathology 6cp

Select 6 credit points from the following options: 6cp
- 91330 Epidemiology and Public Health
- 91401 Introductory Haematology and Immunology

### Year 3
#### Autumn semester
- 91137 DNA Profiling 6cp
- 91138 Investigation of Human Remains 6cp
- 65342 Crime Scene Investigation 6cp

Select 6 credit points from the following options: 6cp
- 91335 Molecular Biology 2 6cp
- 91338 Clinical Bacteriology 6cp
- 91344 Medical and Diagnostic Biochemistry 6cp
- 91358 Advanced Haematology 6cp
- 91359 Advanced Immunology 6cp

#### Spring semester
- 91139 Complex Forensic Cases (Biology) 6cp
- 79028 Complex Forensic Cases (Law for Biology) 6cp

Select 12 credit points from the following options: 12cp
- 91129 Transfusion Science 6cp
- 91330 Epidemiology and Public Health
- 91345 Biochemistry, Genes and Disease 6cp
- 91352 Parasitology 6cp

### Honours
The Bachelor of Science (Honours) in Biomedical Science (C09023) (see page 114) is available to eligible students with an additional one year of full-time or equivalent part-time study. Students completing this course can be awarded the Bachelor of Science (Honours) in Biomedical Science - Forensic Biology.

### Professional recognition
Graduates are eligible for membership of the Australian and New Zealand Forensic Science Society.

### Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

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### C10184v5 Bachelor of Medical Science

**Award(s):** Bachelor of Medical Science (BMedSc)
**UAC code:** 607050
**CRICOS code:** 023607A
**Commonwealth-supported place?** Yes

Load credit points: 144
Course EFTSL: 3
Location: City campus

**Note(s)**
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

### Overview
This degree is designed to educate and train graduates for careers in medical and health-related sciences. It aims to produce professional medical scientists with highly adaptable and practical scientific skills accompanied by a thorough grounding in theory. It specialises in the human body's structure, function and disease processes at the cellular and whole organ level.

The course provides the foundation knowledge and skills for students who wish to go on to postgraduate programs such as medicine, dentistry, pharmacy, biomedical engineering, nutrition and dietetics, complementary medicine, public health and health administration. Pharmaceutical companies look to medical science graduates to work in areas such as drug registration and clinical trials coordination, as technical or marketing representatives and as policy analysts. Graduates also work as consultants, providing links with bodies such as state health departments and the Therapeutic Goods Administration.

### Career options
Career options include positions in private and public hospitals, public health units, government departments and in biotechnology, health technology and pharmaceutical companies.

### Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

### International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Assumed knowledge
Mathematics; English; and any two science subjects.

### Course duration and attendance
Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

### Course structure
Students must complete a total of 144 credit points, made up of 120 credit points of core subjects and 24 credit points of elective subjects. There is some choice within the core subjects enabling students to focus on a particular theme or area of expertise. The elective subjects enable students to increase their expertise in other areas of science or other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects.
Students must satisfactorily complete all core subjects and the required number of credit points of elective/sub-major subjects for award of the degree.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>STN90680</td>
<td>Foundation stream (Life and Environmental Sciences)</td>
<td>48cp</td>
</tr>
<tr>
<td>STN90684</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics</td>
<td>6cp</td>
</tr>
<tr>
<td>91706</td>
<td>Neuroscience</td>
<td>6cp</td>
</tr>
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<td>91707</td>
<td>Pharmacology 1</td>
<td>6cp</td>
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<td>91708</td>
<td>Medical and Applied Physiology</td>
<td>6cp</td>
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<tr>
<td>91709</td>
<td>Pharmacology 2</td>
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<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
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<td>91703</td>
<td>Physiological Systems</td>
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<tr>
<td>CBK90582</td>
<td>Elective 4</td>
<td>6cp</td>
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</table>

Total 144cp

**Course program**

The program shown assumes full-time attendance, commencing in Autumn semester.

**Year 1**

<table>
<thead>
<tr>
<th>Autumn semester</th>
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</thead>
<tbody>
<tr>
<td>65111 Chemistry 1</td>
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<tr>
<td>91107 The Biosphere</td>
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</tr>
<tr>
<td>91161 Cell Biology and Genetics</td>
<td>6cp</td>
</tr>
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<td>33116 Statistical Design and Analysis</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>65212 Chemistry 2</td>
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<tr>
<td>91123 Biocomplexity</td>
<td>6cp</td>
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<tr>
<td>91400 Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>68041 Physical Aspects of Nature</td>
<td>6cp</td>
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**Year 2**

<table>
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<tr>
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<tbody>
<tr>
<td>91320 Metabolic Biochemistry</td>
<td>6cp</td>
</tr>
<tr>
<td>91314 General Microbiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91703 Physiological Systems</td>
<td>6cp</td>
</tr>
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<td>CBK90579 Elective 1</td>
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</tr>
</thead>
<tbody>
<tr>
<td>91132 Molecular Biology 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91239 Human Pathophysiology</td>
<td>6cp</td>
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<tr>
<td>Select 12 credit points from the following options:</td>
<td>12cp</td>
</tr>
<tr>
<td>91326 Analytical Biochemistry</td>
<td>6cp</td>
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<tr>
<td>91330 Epidemiology and Public Health Microbiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91401 Introductory Haematology and Immunology</td>
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**Year 3**

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</thead>
<tbody>
<tr>
<td>91707 Pharmacology 1</td>
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<td>91706 Neuroscience</td>
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<td>91403 Medical Imaging</td>
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<td>CBK90581 Elective 3</td>
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<tbody>
<tr>
<td>91709 Pharmacology 2</td>
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<td>91708 Medical and Applied Physiology</td>
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<td>CBK90582 Elective 4</td>
<td>6cp</td>
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<tr>
<td>91705 Medical Devices and Diagnostics</td>
<td>6cp</td>
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</tbody>
</table>

**Honours**

The Bachelor of Medical Science (Honours) (C9031) (see page 116) is available to eligible students with an additional one year of full-time study.

**Other information**

Further information is available from:
- Building 6 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

---

**C10186v7 Bachelor of Health Science in Traditional Chinese Medicine**

*Award(s): Bachelor of Health Science in Traditional Chinese Medicine (BHlthSc)*

*UAC code: 607055*

*CRICOS code: 033604B*

*Commonwealth-supported place?: Yes*

*Load credit points: 192*

*Course EFTSL: 4*

*Location: City campus*

**Note(s)**

For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

**Overview**

This course provides graduates with a professional entry level for the practice of acupuncture and Chinese herbal medicine. It aims to produce professional Chinese medicine practitioners with highly adaptable and practical clinical skills accompanied by a thorough grounding in theory.

The course has a strong history of delivering highly skilled practitioners and potential researchers. Students complete 1050 clinical hours, starting in the first semester first year and are well equipped for private practice. Opportunity exists for clinical internship in China and Korea, or undertaking the international studies program by learning Mandarin and spending a year studying in China.

**Career options**

Career options include self-employment in private practice or as part of an interdisciplinary clinical team. Opportunities exist in healthcare policy development and consultancy; research trial coordination; and sales, marketing and product development for herbal and pharmaceutical companies.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Non-current school leavers must submit a personal statement to UTS by 30 November. Further information is available from: www.undergraduate.uts.edu.au/apply

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Any two units of English; and any two units of science.

Biology is recommended.

**Course duration and attendance**

This course can be completed over four years of full-time study. Attendance involves approximately 24 hours each week at the University. This also involves students practising their skills in the UTS acupuncture and herbal medicine clinics as required during the course.

**Course structure**

The course comprises 192 credit points of study and consists of eight academic stages, taken over four years of full-time study.

**Industrial training/professional practice**

Students gain practical clinical experience treating patients under the guidance of qualified health professionals.
Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>99665</td>
<td>Chinese Medicine Foundations 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99641</td>
<td>Point Location and Acupuncture Anatomy</td>
<td>6cp</td>
</tr>
<tr>
<td>92227</td>
<td>Communication for the Complementary Therapist</td>
<td>6cp</td>
</tr>
<tr>
<td>99667</td>
<td>Clinical Theory and Clinic Level 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99666</td>
<td>Chinese Medicine Foundations 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99567</td>
<td>Introduction to Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>91529</td>
<td>Health and Homeostasis</td>
<td>6cp</td>
</tr>
<tr>
<td>99668</td>
<td>Clinic Level 2 and Acupuncture Techniques 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99618</td>
<td>Chinese Diagnostic System 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99650</td>
<td>Pharmacology of Chinese Herbal Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>91529</td>
<td>Pathophysiology and Pharmacology 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99651</td>
<td>Chinese Herbal Formula 1</td>
<td>6cp</td>
</tr>
<tr>
<td>99621</td>
<td>Chinese Diagnostic System 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91530</td>
<td>Pathophysiology and Pharmacology 2</td>
<td>6cp</td>
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<td>99652</td>
<td>Chinese Herbal Formula 2</td>
<td>6cp</td>
</tr>
<tr>
<td>99584</td>
<td>Clinical Features of Disease</td>
<td>6cp</td>
</tr>
<tr>
<td>91610</td>
<td>Medical Classics and the History of Chinese Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>99646</td>
<td>Clinic Level 5 and Acupuncture Microsystems</td>
<td>6cp</td>
</tr>
<tr>
<td>99656</td>
<td>Disease States for Traditional Chinese Medicine 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91611</td>
<td>Clinical Practicum (Therapy and Diagnosis)</td>
<td>6cp</td>
</tr>
<tr>
<td>99647</td>
<td>Clinic Level 6</td>
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<tr>
<td>99656</td>
<td>Disease States for Traditional Chinese Medicine 1</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Course program

The program is shown below.

Year 1

**Autumn semester**

- 99665: Chinese Medicine Foundations 1 (6cp)
- 99641: Point Location and Acupuncture Anatomy (6cp)
- 99667: Clinical Theory and Clinic Level 1 (6cp)
- 92227: Communication for the Complementary Therapist (6cp)

**Spring semester**

- 99567: Introduction to Chinese Herbal Medicine (6cp)
- 99666: Chinese Medicine Foundations 2 (6cp)
- 99668: Clinic Level 2 and Acupuncture Techniques 1 (6cp)
- 91529: Health and Homeostasis (6cp)

Year 2

**Autumn semester**

- 99618: Chinese Diagnostic System 1 (6cp)
- 99644: Clinic Level 3 and Acupuncture Techniques 2 (6cp)
- 99650: Pharmacology of Chinese Herbal Medicine (6cp)
- 91529: Pathophysiology and Pharmacology 1 (6cp)

**Spring semester**

- 99621: Chinese Diagnostic System 2 (6cp)
- 99645: Clinic Level 4 and Acupuncture Techniques 3 (6cp)
- 99651: Chinese Herbal Formula 1 (6cp)
- 91530: Pathophysiology and Pharmacology 2 (6cp)

Year 3

**Autumn semester**

- 99584: Clinical Features of Disease (6cp)
- 99646: Clinic Level 5 and Acupuncture Microsystems (6cp)
- 99652: Chinese Herbal Formula 2 (6cp)
- 91527: Pathophysiology and Pharmacology 3 (6cp)

**Spring semester**

- 91610: Medical Classics and the History of Chinese Medicine (6cp)
- 91611: Clinical Practicum (Therapy and Diagnosis) (6cp)
- 99647: Clinic Level 6 (6cp)
- 99656: Disease States for Traditional Chinese Medicine (6cp)

**Year 4**

**Autumn semester**

- 91614: Evaluating TCM: Theory, Practice and Research 1 (6cp)
- 99630: Clinical Practice 1 (TCM) (12cp)
- 99657: Disease States for Traditional Chinese Medicine 2 (6cp)

**Spring semester**

- 91613: Professional Issues in Traditional Chinese Medicine (6cp)
- 99631: Clinical Practice 2 (TCM) (12cp)
- 91615: Evaluating TCM: Theory, Practice and Research 2 (6cp)

Transfer between UTS courses

Students have the opportunity to transfer into the combined degree Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in International Studies (C10164) (see page 209). This involves an additional two years of language and culture training in Australia and China.

Professional recognition

Graduates qualify for professional membership of most Australasian Chinese medicine professional associations. It is expected graduates will be eligible for registration under the new 2012 National Registration scheme.

Other information

Further information is available from:

Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10206v5 Bachelor of Education in Primary Education

Overview

This course prepares students to teach in schools from kindergarten to Year 6. It is a practice-oriented course that aims to produce high-quality graduates through an integrated program of the latest educational theory, along with professional experience every semester in every year. Students continually develop teaching competence throughout the entire degree by teaching what they learn in professional experience.

This course is designed for students who want the benefit of extensive and diverse professional experience opportunities. Students also study innovative teaching methods in the key learning areas and have a wide choice of electives in which to add depth of study in fields of interest. Students have the opportunity to undertake an international teaching practicum in countries such as China, Thailand or Samoa.

Course aims

The course aims to produce primary school teachers who are reflective in their practice, are able to manage the changing nature of teaching, have well developed interpersonal skills, are keen to put current developments in learning and teaching into practice, and have a commitment to lifelong learning.
Career options
Career options include a primary school teacher (kindergarten to Year 6) in a public or private school locally and internationally. Other options include a curriculum consultant, educational researcher or educator in a community setting such as a hospital, community or migrant education centre.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Local students apply through the Universities Admissions Centre.

International students
International students apply through UTS International.

Assumed knowledge
Competency in English and mathematics is a requirement. To gain employment as primary teachers in NSW schools, students must have achieved: HSC minimum Band 4 in English Advanced, Standard English or English as a Second Language, and HSC General Mathematics minimum Band 4 or completion of Mathematics or Extension Mathematics to an equivalent standard. At UTS, students who do not have the requisite HSC Mathematics are provided with a concurrent pathway to complete an equivalent course in General Mathematics (see www.education.uts.edu.au/students/maths).

Similarly, students who do not demonstrate the requisite HSC English are required to attend intensive workshops where they are provided with specific tuition.

Course duration and attendance
The course duration is four years of full-time study. The course may also be undertaken at a reduced load, provided it is completed within six years.

Course structure
The course totals 192 credit points of study and has three main streams.

- Key learning areas: develops student knowledge of the primary school syllabus and builds pedagogical skill in its implementation.
- Professional experience: builds student knowledge and skill in core aspects of teaching and learning practice, applies that practice in the field, and reflects on it critically in subsequent course elements.
- Contextual studies: where knowledge of the influences on students, on their evolving sense of themselves and their place in the social and physical world, and on their learning is examined.

Students also study a wide range of electives. Honours is available to merititious students instead of electives.

Industrial training/professional practice
Students undertake professional experience teaching in schools and / or community settings in every semester, and every year, throughout the degree. This includes a 20-day internship with a teaching and professional learning element. In the third year, an international teaching placement is available in China, Thailand or Samoa.

Course completion requirements
STM90328 Professional Experience 48cp
Select one of the following:
012220 Visual Arts Education 6cp
012219 Music, Movement and Dance 6cp
012231 Professional Experience 1: Beginning Teaching 6cp

Spring semester
012215 Social and Environmental Education 1 6cp
Select one of the following:
012219 Music, Movement and Dance 6cp
012220 Visual Arts Education 6cp
012222 Child Development 6cp
012232 Professional Experience 2: Developing Classroom Management 6cp

Year 1
Autumn semester
012208 English Education 1 6cp
012217 Personal Development, Health and Physical Education 1 6cp
Select one of the following:
012220 Visual Arts Education 6cp
012231 Professional Experience 1: Beginning Teaching 6cp

Spring semester
012215 Social and Environmental Education 1 6cp
Select one of the following:
012219 Music, Movement and Dance 6cp
012220 Visual Arts Education 6cp
012222 Child Development 6cp
012232 Professional Experience 2: Developing Classroom Management 6cp

Year 2
Autumn semester
012210 Mathematics Teaching and Learning 1 6cp
012213 Learning in Science and Technology 1 6cp
012223 Research in Learning 6cp
012233 Professional Experience 3: Integrating Learning Technologies 6cp

Spring semester
012209 English Education 2 6cp
012218 Personal Development, Health and Physical Education 2 6cp
012224 Sociology of Education 6cp
012234 Professional Experience 4: Integrating Diverse Contexts in Education 6cp

Year 3
Autumn semester
012216 Social and Environmental Education 2 6cp
012235 Professional Experience 5: Teaching Students with Special Educational Needs 6cp
Select 12 credit points of electives 12cp

Spring semester
012211 Mathematics Teaching and Learning 2 6cp
012214 Learning in Science and Technology 2 6cp
012225 Issues in Indigenous Australian Education 6cp
012236 Professional Experience 6: Programming and Assessing in Education 6cp

Year 4
Autumn semester
Select one of the following:
012212 Mathematics Teaching and Learning 3 6cp
012221 Philosophical and Ethical Practice in Education 6cp
012237 Professional Experience 7: Meeting the English Language Needs of Learners 6cp
Select 12 credit points of electives 12cp

International students apply through UTS International.

Local students apply through the Universities Admissions Centre.

Eligibility for admission does not guarantee offer of a place.

International students
Example programs are given below for a student commencing in Autumn semester and undertaking the course full time with and without honours.

Full time, without honours

Year 1
Autumn semester
012208 English Education 1 6cp
012217 Personal Development, Health and Physical Education 1 6cp
Select one of the following:
012220 Visual Arts Education 6cp
012231 Professional Experience 1: Beginning Teaching 6cp

Spring semester
012215 Social and Environmental Education 1 6cp
Select one of the following:
012219 Music, Movement and Dance 6cp
012220 Visual Arts Education 6cp
012222 Child Development 6cp
012232 Professional Experience 2: Developing Classroom Management 6cp

Year 2
Autumn semester
012210 Mathematics Teaching and Learning 1 6cp
012213 Learning in Science and Technology 1 6cp
012223 Research in Learning 6cp
012233 Professional Experience 3: Integrating Learning Technologies 6cp

Spring semester
012209 English Education 2 6cp
012218 Personal Development, Health and Physical Education 2 6cp
012224 Sociology of Education 6cp
012234 Professional Experience 4: Integrating Diverse Contexts in Education 6cp

Year 3
Autumn semester
012216 Social and Environmental Education 2 6cp
012235 Professional Experience 5: Teaching Students with Special Educational Needs 6cp
Select 12 credit points of electives 12cp

Spring semester
012211 Mathematics Teaching and Learning 2 6cp
012214 Learning in Science and Technology 2 6cp
012225 Issues in Indigenous Australian Education 6cp
012236 Professional Experience 6: Programming and Assessing in Education 6cp

Year 4
Autumn semester
Select one of the following:
012212 Mathematics Teaching and Learning 3 6cp
012221 Philosophical and Ethical Practice in Education 6cp
012237 Professional Experience 7: Meeting the English Language Needs of Learners 6cp
Select 12 credit points of electives 12cp

Elapsed time duration. Students can extend their courses only in exceptional circumstances. International students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
C10208v5 Bachelor of Education
Bachelor of Arts in International Studies

Award(s): Bachelor of Education (BED)
Bachelor of Arts in International Studies (BA)

UAC code: 609160
CRICOS code: 025816J
Commonwealth-supported place?: Yes
Load credit points: 252
Course EFTSL: 5.25
Location: Kuring-gai campus

Overview
This combined degree prepares students to teach in schools from kindergarten to Year 6, ensuring they are well equipped to meet the challenges of local and international teaching. It is a practice-based course that aims to produce high-quality graduates through an integrated program combining the latest educational theory with professional experience. In the fourth year, students undertake a year of in-country study at an overseas university.

The degree is for students who want a strong practice-oriented primary education qualification and the benefit of learning and studying another language and culture, which includes a year living overseas studying in their country of choice. It may appeal to students who want an international study experience or are aiming for an international career.

Course aims
This combined degree aims to provide students with the professional education necessary for preparation for primary teaching, while at the same time providing an opportunity to acquire knowledge and understanding of another language and culture.

Career options
Career options include a primary school teacher (kindergarten to Year 6) in a public or private school, a curriculum consultant, educational researcher or educator in a community setting such as a hospital, community or migrant education centre. Career options in primary school teaching and teaching English as a second language overseas are enhanced by international experience.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Education in Primary Education (C10206) (see page 219). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Local students apply through the Universities Admissions Centre.

International students
International students apply through UTS International.

Assumed knowledge
Competency in English and mathematics is a requirement. To gain employment as primary teachers in NSW schools, students

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
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<td>012216</td>
<td>Social and Environmental Education 2</td>
<td>6cp</td>
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<tr>
<td></td>
<td></td>
<td>012221</td>
<td>Philosophical and Ethical Practice in Education</td>
<td>6cp</td>
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<tr>
<td></td>
<td></td>
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<td>Professional Experience 5: Teaching Students with Special Educational Needs</td>
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<td>023625</td>
<td>Research Seminar</td>
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<td></td>
<td>Spring</td>
<td>012211</td>
<td>Mathematics Teaching and Learning 2</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>012225</td>
<td>Issues in Indigenous Australian Education</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>012236</td>
<td>Professional Experience 6: Programming and Assessing in Education</td>
<td>6cp</td>
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<td></td>
<td></td>
<td>015381</td>
<td>Thesis Development and Appraisal</td>
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</tr>
<tr>
<td>Year 4</td>
<td>Autumn</td>
<td>012212</td>
<td>Mathematics Teaching and Learning 3</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>012237</td>
<td>Professional Experience 7: Meeting the English Language Needs of Learners</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>023634</td>
<td>Honours Thesis 1</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>012214</td>
<td>Learning in Science and Technology 2</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>012238</td>
<td>Professional Experience 8: Reflecting on Educational Practice</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>023635</td>
<td>Honours Thesis 2</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Honours
Honours is available in the third and fourth years to meritorious students.

Professional recognition
The course provides a teaching qualification recognised by the NSW Department of Education and Training, Independent Schools Association, Catholic Education Office, and is also recognised internationally. Accreditation of the primary teacher education component of the course is through the New South Wales Institute of Teachers (NSWIT). To gain employment as a teacher in NSW schools, graduates must meet the requirements of the NSWIT, including language proficiency and maths (see www.education.uts.edu.au/students/maths).

Other information
Further information is available from UTS: Education at:
www.education.uts.edu.au
Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx
must have achieved: HSC minimum Band 4 in English Advanced, Standard English or English as a Second Language, and HSC General Mathematics minimum Band 4 or completion of Mathematics or Extension Mathematics to an equivalent standard. At UTS, students who do not have the requisite HSC Mathematics are provided with a concurrent pathway to complete an equivalent course in general mathematics. Similarly, students who do not demonstrate the requisite HSC English are required to attend intensive workshops where they are provided with specific tuition.

There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance

The course duration is five years of full-time study. The course may also be undertaken at a reduced load, provided it is completed within six years. Students spend two semesters of study at a university or other higher education institution in the country of their major. The international studies component of the course is offered at City campus only.

Course structure

Students are required to complete 252 credit points of study, comprising 156 credit points in teacher education and 96 credit points in international studies.

The teacher education component includes three streams:
- Key learning areas: develops student knowledge of the primary school syllabus and builds pedagogical skill in its implementation.
- Professional experience: builds student knowledge and skill in core aspects of teaching and learning practice, applies that practice in the field, and reflects on it critically in subsequent course elements.
- Contextual studies: where knowledge of the influences on students, on their evolving sense of themselves and their place in the social and physical world, and on their learning is examined.

The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. It is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study

Students spend their fourth year of study at a university overseas.

Industrial training/professional practice

The primary teacher education component includes the Professional Experience stream, which allows students to complete significant teaching and learning experiences in schools and other settings. This includes a 20-day internship with a teaching and professional learning element.

Course completion requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>CBK90005 Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>STN90328 Professional Experience</td>
<td>48cp</td>
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<tr>
<td>STN90325 Key Learning Areas</td>
<td>78cp</td>
</tr>
<tr>
<td>STN90326 Contextual Studies</td>
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<td><strong>Total</strong></td>
<td><strong>252cp</strong></td>
</tr>
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</table>

Course program

An example program is given for a student undertaking the course full time with the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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<tr>
<td>012208</td>
<td>English Education 1</td>
<td>6cp</td>
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<tr>
<td>012217</td>
<td>Personal Development, Health and Physical Education 1</td>
<td>6cp</td>
</tr>
<tr>
<td>012220</td>
<td>Visual Arts Education</td>
<td>6cp</td>
</tr>
<tr>
<td>012231</td>
<td>Professional Experience 1: Beginning Teaching</td>
<td>6cp</td>
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</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>012215</td>
<td>Social and Environmental Education 1</td>
<td>6cp</td>
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<tr>
<td>012219</td>
<td>Music, Movement and Dance</td>
<td>6cp</td>
</tr>
<tr>
<td>012222</td>
<td>Child Development</td>
<td>6cp</td>
</tr>
<tr>
<td>012232</td>
<td>Professional Experience 2: Developing Classroom Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Year 2**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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</thead>
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<tr>
<td>012210</td>
<td>Mathematics Teaching and Learning 1</td>
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</tr>
<tr>
<td>012233</td>
<td>Professional Experience 3: Integrating Learning Technologies</td>
<td>6cp</td>
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<tr>
<td>976001</td>
<td>Foundations in International Studies</td>
<td>8cp</td>
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<tr>
<td>97601</td>
<td>German Language and Culture 1</td>
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**Spring semester**

<table>
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<tr>
<td>012209</td>
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<td>6cp</td>
</tr>
<tr>
<td>012218</td>
<td>Personal Development, Health and Physical Education 2</td>
<td>6cp</td>
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<td>012234</td>
<td>Professional Experience 4: Integrating Diverse Contexts in Education</td>
<td>6cp</td>
</tr>
<tr>
<td>97602</td>
<td>German Language and Culture 2</td>
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</table>

**Year 3**

**Autumn semester**

<table>
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<tbody>
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</tr>
<tr>
<td>012223</td>
<td>Research in Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>012235</td>
<td>Professional Experience 5: Teaching Students with Special Educational Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>97603</td>
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<td>8cp</td>
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**Spring semester**

<table>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>012211</td>
<td>Mathematics Teaching and Learning 2</td>
<td>6cp</td>
</tr>
<tr>
<td>012236</td>
<td>Professional Experience 6: Programming and Assessing in Education</td>
<td>6cp</td>
</tr>
<tr>
<td>97604</td>
<td>German Language and Culture 4</td>
<td>8cp</td>
</tr>
<tr>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
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</tbody>
</table>

**Year 4**

**Autumn semester**

<table>
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<tbody>
<tr>
<td>977420</td>
<td>In-country Study 1: Germany</td>
<td>24cp</td>
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**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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<tr>
<td>978420</td>
<td>In-country Study 2: Germany</td>
<td>24cp</td>
</tr>
</tbody>
</table>

**Year 5**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>012212</td>
<td>Mathematics Teaching and Learning 3</td>
<td>6cp</td>
</tr>
<tr>
<td>012213</td>
<td>Learning in Science and Technology 1</td>
<td>6cp</td>
</tr>
<tr>
<td>012221</td>
<td>Philosophical and Ethical Practice in Education</td>
<td>6cp</td>
</tr>
<tr>
<td>012237</td>
<td>Professional Experience 7: Meeting the English Language Needs of Learners</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>012214</td>
<td>Learning in Science and Technology 2</td>
<td>6cp</td>
</tr>
<tr>
<td>012224</td>
<td>Sociology of Education</td>
<td>6cp</td>
</tr>
<tr>
<td>012225</td>
<td>Issues in Indigenous Australian Education</td>
<td>6cp</td>
</tr>
<tr>
<td>012238</td>
<td>Professional Experience 8: Reflecting on Educational Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Professional recognition

The course provides a teaching qualification recognised by the NSW Department of Education and Training, Association of Independent Schools, Catholic Education Office; and is also recognised internationally. Accreditation of the primary teacher education component of the course is through the New South Wales Institute of Teachers (NSWIT). To gain employment as a teacher in NSW schools, graduands must meet the requirements of the NSWIT, including language proficiency.

Other information

Further information on the teacher education component is available from UTS: Education on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.education.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**C10209v4 Bachelor of Arts in Educational Studies**

**Award(s):** Bachelor of Arts in Educational Studies [BA]

CRICOS code: B06168A

Commonwealth-supported place?: Yes

Load credit points: 144

Course EFTSL: 3

Location: Kuring-gai campus

**Note(s)**

This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.

**Overview**

From 2002, students who originally enrolled in the Bachelor of Education in Primary Education (C10206) (see page 219), Bachelor of Education in Special Education (C10207), Bachelor of Education Bachelor of Arts in International Studies (C10208) (see page 221) or the Bachelor of Teaching in Secondary Education (C80002) (see page 468) have the opportunity of changing to this three-year degree (subject to the approval of the program director). This degree does not provide qualifications to teach.

**Career options**

Careers are education related.

**Course duration and attendance**

The course duration is three years of full-time study.

**Course structure**

Students complete 144 credit points of study.

**Course completion requirements**

Select one of the following: 144cp

- CBK90121 Primary Education 144cp
- CBK900601 Secondary Education 144cp
- Total 144cp

**Exit award**

This exit-only course enables students originally enrolled in the Bachelor of Education in Primary Education (C10206) (see page 219), Bachelor of Education in Special Education (C10207), Bachelor of Education Bachelor of Arts in International Studies (C10208) (see page 221) or the Bachelor of Teaching in Secondary Education (C80002) (see page 468) to transfer to this course and complete with a three-year, non-teaching qualification.

**Other information**

Further information is available from the UTS Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C10214v3 Bachelor of Construction Project Management**

**Award(s):** Bachelor of Construction Project Management (BCPM)

UAC code: 602025

CRICOS code: B44183B

Commonwealth-supported place?: Yes

Load credit points: 192

Course EFTSL: 4

Location: City campus

**Overview**

 Widely regarded as one of the most respected courses within the industry, the Bachelor of Construction Project Management provides a comprehensive construction education. This unique degree provides graduates with the broader skills and knowledge base required to meet the changing demands of the construction, infrastructure and related industries.

This course puts students at the forefront of contemporary industry practice as they deal with real-life examples and case studies that facilitate the application of theory in a way that is practical and relevant.

Graduates are renowned among employers for their practical knowledge and professional skills.

The course satisfies all the main accreditation requirements for the disciplines of construction management and quantity surveying. Students can also study sub-majors in areas of particular interest. Examples include sub-majors in environmental studies and architectural studies. The course also provides skills and knowledge that can be applied in other industries such as mining, petrochemicals and infrastructure development.

The course offers a unique blend of theory and practice that incorporates concurrent industrial experience with the end result being that graduates graduate as highly skilled and sought-after professionals.

**Course aims**

This course is concerned with the management of all aspects of the construction process, including business management, construction management, design management, project management, quantity surveying, contract administration and property development. It delivers all the recognised competencies for construction project management professionals while introducing the prospect of diversifying into project management.

**Career options**

Career opportunities for graduates include project manager, construction manager, construction economist, quantity surveyor, design manager, environmental manager, contract manager, site manager, construction programmer, cost engineer, estimator, facility manager and property developer.

Graduates have a wide range of employment opportunities and can work in both the private and public sectors for employers such as building proprietors, contractors, developers, government bodies and consultancy practices or be self-employed entrepreneurs. As key professionals in the construction industry, graduates work closely with other professional disciplines, industry groups and development authorities.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

UTS: Design, Architecture and Building may consider applications based on the results of the Special Tertiary Admissions Test (STAT) if students lack academic qualifications but have extensive professional experience. The STAT is conducted through the Universities Admissions Centre.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Mathematics and any two units of English.

**Credit recognition**

Students with prior academic or industrial experience are considered for credit recognition for up to a maximum of 96 credit points (50 per cent of the course) and may be given the opportunity to tailor their program of study in line with subjects completed previously at other institutions. Contact a UTS Student Centre for further information.
Course duration and attendance

The course is offered on a four-year, full-time or six-year, part-time basis. Students may transfer between part-time and full-time attendance patterns. Part-time students attend one day and one evening a week. Full-time students may be expected to attend at any time during the week. The contact hours allocated to each subject are nominal and often involve a combination of lectures, tutorials, workshops and self-directed teaching methods. Some subjects are offered online and, according to demand, some subjects may be offered over Summer session.

Course structure

The course program consists of 192 credit points, comprising 28 6-credit-point core subjects and four 6-credit-point electives, the latter chosen either from within UTS: Design, Architecture and Building or from the many electives offered by other faculties throughout the University.

Students undertaking four elective subjects (24 credit points) within a common area are eligible for a sub-major. Sub-majors are offered in project management, construction finance / economics and architectural studies, depending on demand.

Industrial training/professional practice

In this course, the value of concurrent industry experience is recognised and students are required to accumulate relevant industry experience prior to graduating. The course provides part-time and flexible study options to enable students to gain this valuable industry experience during their studies.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90373</td>
<td>Core subjects</td>
<td>168cp</td>
</tr>
<tr>
<td>CB90242</td>
<td>Sub-major/Electives (DAB)</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>192cp</strong></td>
</tr>
</tbody>
</table>

Course program

The example program below is for a student commencing in Autumn semester and undertaking the course full time.

Full time

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16468</td>
<td>Introduction to the Built Environment</td>
<td>6cp</td>
</tr>
<tr>
<td>16466</td>
<td>Built Environment Economics</td>
<td>6cp</td>
</tr>
<tr>
<td>16109</td>
<td>Construction Technology 1</td>
<td>6cp</td>
</tr>
<tr>
<td>16137</td>
<td>Digital Built Environment</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16467</td>
<td>Built Environment Law</td>
<td>6cp</td>
</tr>
<tr>
<td>16103</td>
<td>Materials Science</td>
<td>6cp</td>
</tr>
<tr>
<td>16266</td>
<td>Sustainable Urban Design and Development</td>
<td>6cp</td>
</tr>
<tr>
<td>16265</td>
<td>Construction Technology 2</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Year 2**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16206</td>
<td>Structures</td>
<td>6cp</td>
</tr>
<tr>
<td>16912</td>
<td>Site Management</td>
<td>6cp</td>
</tr>
<tr>
<td>16138</td>
<td>Site Establishment</td>
<td>6cp</td>
</tr>
<tr>
<td>16212</td>
<td>Digital Design and Construction 1</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16105</td>
<td>Cost Management 1: Measurement</td>
<td>6cp</td>
</tr>
<tr>
<td>16314</td>
<td>Construction Technology 3</td>
<td>6cp</td>
</tr>
<tr>
<td>16913</td>
<td>Time and Quality Management</td>
<td>6cp</td>
</tr>
<tr>
<td>11204</td>
<td>Integrated Services</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Year 3**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16317</td>
<td>Risk and Safety Management</td>
<td>6cp</td>
</tr>
<tr>
<td>16203</td>
<td>Cost Management 2: Estimating</td>
<td>6cp</td>
</tr>
<tr>
<td>16263</td>
<td>Design Team Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16423</td>
<td>Procurement and Contract Management</td>
<td>6cp</td>
</tr>
<tr>
<td>16422</td>
<td>Construction Technology 4</td>
<td>6cp</td>
</tr>
<tr>
<td>16207</td>
<td>Cost Management 3: Cost Planning</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

**Year 4**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16264</td>
<td>Accounting and Business Management</td>
<td>6cp</td>
</tr>
<tr>
<td>16470</td>
<td>Digital Design and Construction 2</td>
<td>6cp</td>
</tr>
<tr>
<td>16412</td>
<td>Cost Management 4: Advanced Estimating</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>16914</td>
<td>Human Resources and Communications Management</td>
<td>6cp</td>
</tr>
<tr>
<td>16469</td>
<td>Professional Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>16307</td>
<td>Project Management Integration</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

Levels of award

The Bachelor of Construction Project Management may be awarded with first class or second class honours based on the students’ academic performance over the entirety of their studies. The class of honours is determined by academic merit.

Professional recognition

Royal Institution of Chartered Surveyors (RICS); Australian Institute of Quantity Surveyors (AIQS); Australian Institute of Building (AIB); Chartered Institute of Building (CIOB)

Other information

Further information is available from:

Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C10215v3 Bachelor of Construction Project Management Bachelor of Arts in International Studies

Award(s): Bachelor of Construction Project Management (BCPM)
Bachelor of Arts in International Studies (BA)
UAC code: 699195
CRICOS code: 047836A
Commonwealth-supported place?: Yes
Load credit points: 288
Course EFTSL: 6
Location: City campus

Overview

Widely regarded as one of the most respected courses within industry, the Bachelor of Construction Project Management provides a comprehensive construction education. The combined Bachelor of Construction Project Management Bachelor of Arts in International Studies aims to provide graduates not only with those skills necessary for the management of all aspects of the construction process, but also to develop perspectives and understandings that enable them to meet the demands of an internationalised professional environment.

This course puts students at the forefront of industry as they deal with real-life examples, applying theory in a way that is practical and relevant. Graduates are renowned among employers for their hands-on knowledge and professional skills.

The course satisfies all the main accreditation requirements for the disciplines of quantity surveying and construction management and students can study a sub-major in project management or construction finance and economics. It also provides skills and knowledge that can be applied in other industries, such as mining, petrochemicals and infrastructure.

UTS: Design, Architecture and Building offer a unique blend of theory and practice so that students graduate as highly skilled and sought-after professionals. Concurrent industrial experience is a feature of the course with students required to acquire a specified level of industry experience before graduating.

Graduates also possess an advanced understanding of the language and culture of their chosen country of study, thus enabling them to pursue a range of career paths both locally and internationally.
Course aims
This course is concerned with management of all aspects of the construction process, including business management, construction management, design management, quantity surveying, contract management and property development. It delivers all the recognised competencies for construction project management professionals while introducing the prospect of diversifying into project management.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Construction Project Management (C10214) (see page 223). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 87) with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 580-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
The course duration is six years of full-time study. The contact hours allocated to each subject are nominal and often involve a combination of lectures, tutorials, workshops and self-directed teaching methods. Some subjects are delivered electronically through UTSOnline. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 288 credit points, comprising 192 credit points in construction project management and 96 credit points in international studies. The construction project management component comprises 28 6-credit-point core subjects and four 6-credit-point electives. Electives can be chosen either from within UTS: Design, Architecture and Building or from the many electives offered by course areas throughout the University. Students undertaking four elective subjects (24 credit points) within a common area are eligible for a sub-major. Sub-majors are offered in three areas, depending on demand. Work experience comprises an important component of the course. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
In the Bachelor of Construction Project Management, the value of hands-on experience is recognised and part-time work in the industry is encouraged; all students are required to accumulate relevant industry experience prior to graduating. The course provides part-time flexible study options to enable students to gain this valuable industry experience during their studies.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>CBK90242</td>
<td>Sub-major / Electives (DAB)</td>
<td>24cp</td>
</tr>
<tr>
<td>STM00373</td>
<td>Core subjects</td>
<td>168cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>288cp</strong></td>
</tr>
</tbody>
</table>

Course program
The example program below is for a student commencing in Autumn semester and undertaking the course with the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16137 Digital Built Environment</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16466 Built Environment Economics</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16109 Construction Technology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16468 Introduction to the Built Environment</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>16103 Materials Science</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16266 Sustainable Urban Design Development</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16265 Construction Technology 2</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16467 Built Environment Law</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>97601 German Language and Culture 1</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>97600 Foundations in International Studies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>16206 Structures</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16912 Site Management</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>16314 Construction Technology 3</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>97602 German Language and Culture 2</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>16105 Cost Management 1: Measurement</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16138 Site Establishment</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>97603 German Language and Culture 3</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>16212 Digital Design and Construction 1</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>97604 German Language and Culture 4</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>976421 Contemporary Germany</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>16913 Time and Quality Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>11204 Integrated Services</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>977420 In-country Study 1: Germany</td>
<td>24cp</td>
</tr>
<tr>
<td>Spring</td>
<td>978420 In-country Study 2: Germany</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Year 5

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16263 Design Team Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16203 Cost Management 2: Estimating</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16317 Risk and Safety Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>16207 Cost Management 3: Cost Planning</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16422 Construction Technology 4</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16423 Procurement and Contract Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 6

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>16264 Accounting and Business Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16412 Cost Management 4: Advanced Estimating</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>16470 Digital Design and Construction 2</td>
<td>6cp</td>
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<td>6cp</td>
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<tr>
<td></td>
<td>16469 Professional Practice</td>
<td>6cp</td>
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<tr>
<td></td>
<td>16914 Human Resources and Communications Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>
Levels of award
The Bachelor of Construction Project Management may be awarded with first class or second class honours based on students’ academic performance over the entirety of their studies. The class of honours is determined by academic merit.

Professional recognition
Royal Institution of Chartered Surveyors (RICS); Australian Institute of Quantity Surveyors (AIQS); Australian Institute of Building (AIB); Chartered Institute of Building (CIOB).

Other information
Further information on the construction component is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au

C10219v4 Bachelor of Business Bachelor of Science in Information Technology

Award(s): Bachelor of Business (BBus) Bachelor of Science in Information Technology (BSc)
UAC code: 603220
CRICOS code: 047835B
Commonwealth-supported place?: Yes
Load credit points: 192
Course EFTSL: 4
Location: City campus

Overview
This course is offered jointly by UTS: Information Technology and UTS: Business and is awarded with two testamurs. The information technology component provides a sound education in all aspects of computing and information technology for students who intend to make a career in the profession. The business component provides students with the knowledge, competencies and values necessary for fulfilling an effective career in business.

Graduates with solid IT skills who also understand business operations are in strong demand in industry. This combined program allows students to gain two degrees, leading towards a career in business IT operations in only four years.

Course aims
The aim of this course is to prepare graduates to apply an in-depth knowledge of information technology to the business activities of an organisation.

Career options
Career options include accountant, advertising consultant, analyst/programmer, banker, business analyst, economist, financial planner, information systems developer, ICT business analyst, IT project manager, management consultant, marketing manager, network specialist, software developer, systems analyst and web developer.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Non-current school leavers are advised to complete the employment question on their UAC application and provide supporting statements of employment to UAC as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics and any two units of English.

External articulation
Students who gain entry through the UTS INSEARCH pathway are eligible for 48 credit points of credit recognition.

Credit recognition
Students who have previously undertaken study at a university or other recognised tertiary education institution may be eligible for some academic credit for their prior study if the subjects previously completed are deemed by the Faculty of Engineering and Information Technology to be equivalent to subjects in the course.

The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. Students must be able to demonstrate that their knowledge is current. Credit recognition is not normally granted in this course for study completed at a private college except where UTS has an external articulation agreement with the college. For further details see:
- www.it.uts.edu.au/courses/undergraduate/credit-recognition.html
There are no exemptions granted for the networking subjects 31270, 31277 and 31283 without the successful completion of the challenge test for each of the these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and/or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance
The course duration is four years of full-time study. Some subjects may be offered in an optional Summer session so that students can fast-track their studies.

Course structure
Students are required to complete 192 credit points, comprising 96 credit points of study in business and 96 credit points of study in information technology.

In the business component, students must complete eight foundation core subjects (6 credit points each) and a business major (48 credit points).

In the information technology component, students must complete eight foundation core subjects (6 credit points each) and an IT major (48 credit points).

Industrial training/professional practice
Industrial training is available as an additional year and students enrol into the Diploma in Information Technology Professional Practice (C20049) (see page 299) once they have secured suitable full-time employment. This incorporates a minimum of nine months full-time work experience with four supporting subjects at UTS.

Full-time students normally undertake the industrial training after completing Year 3. International students can work full-time for the duration of the diploma.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>CBK90169</td>
<td>Major choice (Business)</td>
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<td>STM90273</td>
<td>Core subjects (Business)</td>
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<td>STM90651</td>
<td>Core subjects (Information Technology)</td>
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<td>CBK90781</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>192cp</strong></td>
<td><strong>192cp</strong></td>
</tr>
</tbody>
</table>
Course diagram

- **Bachelor of Business**
  - 8 x 6-credit-point core subjects
  - Total 48 credit points

- **Bachelor of Science in Information Technology**
  - 8 x 6-credit-point core subjects
  - Total 48 credit points

- **Business major**
  - Accounting, economics, finance, human resource management, international business, management, marketing, financial services, marketing communication
  - 8 x 6-credit-point subjects
  - Total 48 credit points

- **IT major**
  - Business information systems management, computing and data analytics, enterprise software development, internetworking and applications
  - 8 x 6-credit-point subjects
  - Total 48 credit points

Course program

Example programs are shown below for each IT major for a student who has chosen Human Resource Management for the business major. Students choose one business major (from CBK90169) and one IT major (from CBK900781).

Note: Subjects listed as electives and IT major subjects are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

### Business major list

- MAJ08437 Accounting 48cp
- MAJ08438 Management 48cp
- MAJ08440 Finance 48cp
- MAJ08441 Marketing 48cp
- MAJ08442 International Business 48cp
- MAJ08446 Human Resource Management 48cp
- MAJ09209 Economics 48cp
- MAJ08088 Financial Services 48cp
- MAJ08116 Marketing Communication 48cp

### Business Information Systems Management major

#### Year 1

- **Autumn semester**
  - 31265 Communication for IT Professionals 6cp
  - 31266 Introduction to Information Systems 6cp
  - 22107 Accounting for Business Decisions A 6cp
  - 26100 Integrating Business Perspectives 6cp

- **Spring semester**
  - 48023 Programming Fundamentals 6cp
  - 31268 Web Systems 6cp
  - 23115 Economics for Business 6cp
  - 26134 Business Statistics 6cp

#### Year 2

- **Autumn semester**
  - 21129 Managing People and Organisations 6cp
  - 31269 Business Requirements Modelling 6cp
  - 31270 Networking Essentials 6cp
  - 22207 Accounting for Business Decisions B 6cp

- **Spring semester**
  - 31271 Database Fundamentals 6cp
  - 25300 Fundamentals of Business Finance 6cp
  - 24106 Marketing Foundations 6cp
  - 48024 Applications Programming 6cp

#### Year 3

- **Autumn semester**
  - 25300 Fundamentals of Business Finance 6cp
  - 35101 Introduction to Linear Dynamical Systems 6cp
  - 31251 Data Structures and Algorithms 6cp

- **Spring semester**
  - 21440 Management Skills 6cp
  - 21036 Managing Strategic Performance 6cp
  - 35151 Introduction to Statistics 6cp
  - 31272 Project Management and the Professional 6cp

#### Year 4

- **Autumn semester**
  - 21037 Managing Employee Relations 6cp
  - 21512 Understanding Organisations: Theory and Practice 6cp
  - 31258 Innovations for Global Relationship Management 6cp
  - 31276 Networked Enterprise Architecture 6cp

- **Spring semester**
  - 21505 Human Resource Management (Capstone) 6cp
  - 21407 Strategic Human Resource Management 6cp
  - 31280 Strategic IT Project 6cp
  - 31282 Systems Testing and Quality Management 6cp

### Computing and Data Analytics major

#### Year 1

- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp

#### Year 2

- 31268 Web Systems 6cp
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp

#### Year 3

- 31272 Project Management and the Professional 6cp
- 31276 Networked Enterprise Architecture 6cp

#### Year 4

- Select 6 credit points from the following options: 6cp
  - 31284 Web Services Development 6cp
  - 31253 Database Programming 6cp
  - 31259 Intelligent Agents 6cp
  - 31243 Analytics Capstone Project B 6cp
  - 31256 Image Processing and Pattern Recognition 6cp

- Select 12 credit points from the following options: 12cp
  - 31284 Web Services Development 6cp
  - 31253 Database Programming 6cp
  - 31259 Intelligent Agents 6cp
  - 31243 Analytics Capstone Project B 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Enterprise Systems Development major

**Year 1**

**Autumn semester**
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp

**Spring semester**
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp

**Year 2**

**Autumn semester**
- 21129 Managing People and Organisations 6cp
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- 22207 Accounting for Business Decisions B 6cp

**Spring semester**
- 31271 Database Fundamentals 6cp
- 25300 Fundamentals of Business Finance 6cp
- 24108 Marketing Foundations 6cp
- 48024 Applications Programming 6cp

**Year 3**

**Autumn semester**
- 21555 Human Resource Management 6cp
- 21510 The Global Context of Management 6cp
- 31284 Network Management 6cp
- 31283 WANS and Virtual LANs 6cp
- 31285 Mobile Applications Development 6cp

**Spring semester**
- 31242 Advanced Internet Programming 6cp
- 31254 e-Commerce 6cp
- 31261 Internetworking Project 6cp
- 31274 Network Management 6cp
- 31283 WANS and Virtual LANs 6cp
- 31285 Mobile Applications Development 6cp

**Year 4**

**Autumn semester**
- 31272 Project Management and the Professional 6cp
- 21037 Managing Employee Relations 6cp
- 21512 Understanding Organisations: Theory and Practice 6cp
- 31252 Network Security 6cp

**Spring semester**
- 21505 Human Resource Management (Capstone) 6cp
- 21407 Strategic Human Resource Management 6cp
- 31254 e-Commerce 6cp
- 31261 Internetworking Project 6cp
- 31274 Network Management 6cp
- 31283 WANS and Virtual LANs 6cp
- 31285 Mobile Applications Development 6cp

### Internetworking and Applications major

**Year 1**

**Autumn semester**
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 22107 Accounting for Business Decisions A 6cp
- 26100 Integrating Business Perspectives 6cp

**Spring semester**
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp
- 23115 Economics for Business 6cp
- 26134 Business Statistics 6cp

**Year 2**

**Autumn semester**
- 21129 Managing People and Organisations 6cp
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- 22207 Accounting for Business Decisions B 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10224v2 Bachelor of Mathematics and Computing Bachelor of Arts in International Studies

Award(s): Bachelor of Mathematics and Computing (BMathComp)
Bachelor of Arts in International Studies (BA)

UAC code: 609225
CRICOS code: 067091E
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
This course integrates studies in mathematics and computing with immersion in another language and culture, enhancing professional training and career options. The course is designed to meet the increasing industry need for graduates with both computational and analytical skills. It offers the prospect of careers in fields which require a sound knowledge of computing together with the ability to analyse and model practical situations.

Demand for mathematics and computing skills is increasing as quantitative analysis becomes more widespread in dealing with commercial and industrial problems. There is also a growing need for teachers with skills in computing as well as mathematics, and graduates of this course are well qualified to fill this role. Employment opportunities are enhanced by the international experience of studying and living overseas.

Career options
Career options include programmer, quantitative analyst, software engineer, systems analyst and technical applications software developer. Teachers with qualifications in this field are highly sought after. Graduates of this course can expect to gain employment in a range of companies and industries that rely on IT and computational techniques, including banks, finance, insurance, logistics and transport, and manufacturing.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Mathematics and Computing (C10158) (see page 201). There are no prior language requirements. There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: Internet based: 80 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The combined degree is offered only on a full-time basis over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students are required to complete 240 credit points of study, comprising 144 credit points in mathematics and computing and 96 credit points in international studies. The mathematics and computing component consists of an integrated sequence of subjects in the mathematical sciences and information technology. The international studies component requires students to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the mathematics and computing component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Mathematics and Computing prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Mathematics and Computing (C10158) (see page 201) single degree program where they must complete all requirements for the stand-alone single degree version.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
CBK90005 Country major choice 96cp
STM90324 Mathematics foundation subjects 72cp
STM90651 Core subjects (Information Technology) 48cp
CBK90373 Sub-major choice 24cp
Total 240cp

Course program
The course commences in Autumn semester. The example program shown below is for a student choosing the Enterprise Systems Development sub-major, and the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Subjects 35212 and 35235 are only available in Autumn semester. Students who wish to choose one of these subjects from the options list in Year 5 Spring semester should contact the course director to discuss possible ways to re-sequence other subjects to permit this choice.

Enterprise Systems Development sub-major

Year 1
Autumn semester
35101 Introduction to Linear Dynamical Systems 6cp
35140 Introduction to Quantitative Management 6cp
31265 Communication for IT Professionals 6cp
31266 Introduction to Information Systems 6cp

Spring semester
35102 Introduction to Analysis and Multivariable Calculus 6cp
35151 Introduction to Statistics 6cp
48023 Programming Fundamentals 6cp
31268 Web Systems 6cp

Year 2
Autumn semester
97601 German Language and Culture 1 8cp
35212 Computational Linear Algebra 6cp
31269 Business Requirements Modelling 6cp
35363 Stochastic Models 6cp

Spring semester
97602 German Language and Culture 2 8cp
35111 Applications of Discrete Mathematics 6cp
35353 Regression Analysis 6cp
31271 Database Fundamentals 6cp

Year 3
Autumn semester
97603 German Language and Culture 3 8cp
97601 Foundations in International Studies 8cp
31270 Networking Essentials 6cp

Spring semester
97604 German Language and Culture 4 8cp
976421 Contemporary Germany 8cp
35231 Differential Equations 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Further study at UTS
Suitably qualified graduates are eligible to proceed to an additional year of advanced study in the Bachelor of Science (Honours) in Mathematics (C09020) (see page 112) or the Bachelor of Science (Honours) in Information Technology (C09019) (see page 111).

Professional recognition
Graduates of this course are eligible for associate-level membership of the Australian Computer Society.

Other information
Further information on the mathematics and computing component is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Further information on the international studies component is available from the Building 1 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

Further information on the international studies component is
available from the Building 1 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10225v2 Bachelor of Midwifery
Award(s): Bachelor of Midwifery (BMid)
UAC code: 606010 [FT], 606011 [PT]
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
This course is only offered to local students.
Students admitted to the Bachelor of Midwifery before 2012 should refer to the course entry in the 2011 handbook.
This course is not offered to international students.

Overview
The Bachelor of Midwifery incorporates midwifery theory, science and clinical practice in a range of health facilities. Graduates of the course are competent midwives who have the skills, knowledge and confidence to practise midwifery according to the international definition of the role and scope of practice of the midwife.

This course was the first Bachelor of Midwifery to be introduced in New South Wales. It provides the opportunity to apply for registration as a midwife with the Nursing and Midwifery Board of Australia without having to become a registered nurse beforehand.

Course aims
The course aims to produce informed, reflective, caring and compassionate midwives who demonstrate competencies related to professional responsibility, interpersonal processes and the exercise of clinical judgment. Graduates are capable of providing woman-centred care in both hospitals and community settings. They practise reflective, evidence-based midwifery encompassing primary health care principles as well as emotional and social aspects of birth. They promote culturally sensitive care for women from indigenous and culturally and linguistically diverse communities. The course prepares students to identify and analyse the knowledge, skills and attitudes that will continue to develop them as midwives and lifelong learners. This includes meeting the challenges of contemporary midwifery practice and maternity service provision in Australia and internationally.

Career options
Career options include being a registered midwife in both hospital and community settings, and in both metropolitan and rural areas. Career progression opportunities include midwifery education and management, consultancy roles, e.g. lactation consultant and independent practice.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The UTS Year 12 Bonus Scheme awards bonus points to Australian high school applicants based on performance in HSC subjects that are relevant to the course applied for. Further details are available at: www.undergraduate.uts.edu.au/bonuspoints

Current school leaver applicants are assessed solely on ATAR.

Entry to the course is competitive. Applicants who are over 20 and do not have competitive recognised academic qualifications are encouraged to sit a Special Tertiary Admissions Test or complete a TAFE certificate IV qualification or higher.

Non-current school leavers are strongly advised to submit a personal statement directly to UTS by 30 November 2012. Further information is available at:
www.undergraduate.uts.edu.au/apply

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C

Eligibility for admission does not guarantee offer of a place.
Assumed knowledge
Any two units of English.
Any two units of science and any two units of mathematics are recommended.

Course duration and attendance
The course is offered at City campus on a three-year, full-time or five-year, part-time basis.

Course structure
Students must gain a minimum of 144 credit points to complete the Bachelor of Midwifery.
Full-time students study four subjects a semester incorporating midwifery theory, science and clinical practice.

Industrial training/professional practice
This course includes extensive midwifery practice, which is a compulsory component. Students undertake midwifery professional experience in an allocated area health service facility. Clinical placements occur in blocks each semester, and are in addition to time spent in the midwifery clinical practice laboratories that simulate the clinical environment. The placements involve morning, evening and possibly night shifts. Over the duration of the course, students are also required to follow 20 women throughout their pregnancy, birth and the period after birth. This requires students to be on-call to attend the labour and birth. Third-year students undertake a prolonged period of clinical experience with much of their time spent in a clinical environment. Third-year students also have the opportunity to complete a rural and remote placement.

All midwifery students must adhere to the requirements in the Ministry of Health policy directive, 'PD2011_005 Occupational Assessment, Screening and Vaccination Against Specified Infectious Diseases', prior to commencement of any clinical practice placements. The policy can be viewed at:

The policy should be read in full as it outlines students' obligation for screening and immunisation against certain infectious diseases prior to commencing their clinical placement. Students are asked to provide evidence of their immunity or vaccination status, and screening for tuberculosis (TB) status may also be required prior to or at the time of commencement of the first clinical placement. Students should be aware that if they do not meet the requirements of the policy they cannot commence the placement and as a result are not able to complete the course.

Students are also required to undertake a National Criminal Record Check and obtain a National Police Certificate. Further information is available at:

In the full-time program, students commence midwifery professional experience in the clinical setting in first year and this continues into second and third year. In the part-time program, midwifery professional experience in the clinical setting occurs in the second, fourth and fifth years of the course.

Course completion requirements
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<tr>
<th>Course structure</th>
<th>Credit points</th>
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<td>STM90074 First-year subjects</td>
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<td>STM90075 Second-year subjects</td>
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<td>STM90076 Third-year subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>Total</td>
<td>144cp</td>
</tr>
</tbody>
</table>

Course program
Typical full-time and part-time course programs are shown below.

Full time

Year 1

Autumn semester
92622 Becoming a Midwife 6cp
92271 Foundations of Midwifery Practice 6cp
92272 Anatomy and Physiology: Pregnancy and Childbirth 6cp
92632 Midwifery Practice 1: Preparation for Practice 6cp

Spring semester
92634 Transitions to Parenthood 6cp
92922 The Meaning of Birth 6cp
92927 Evidence-based Practice (Midwifery) 6cp
92630 Midwifery Practice 2: Supporting Women 6cp

Year 2

Autumn semester
99636 Essentials of Pathophysiology 6cp
92626 Midwifery Practice 3: Complex Pregnancy 6cp
92624 Complex Pregnancy 6cp
92920 Complex Newborn Care 6cp

Spring semester
92623 Complex Labour, Birth and Puerperium 6cp
92621 Aboriginal and Torres Strait Islander: Women and Babies 6cp
92627 Midwifery Practice 4: Complex Labour, Birth and Puerperium 6cp
91604 Introductory Pharmacology and Microbiology 6cp

Year 3

Autumn semester
92282 Australian Health Care System 6cp
92631 Midwifery as Primary Health Care 6cp
92625 Emergencies in Maternity Care 6cp
92628 Midwifery Practice 5: Working with Women 6cp

Spring semester
92286 International Perspectives in Midwifery 6cp
92633 Professional Practice 6cp
92283 Challenges in Midwifery Practice 6cp
92629 Midwifery Practice 6: Transitions to Being a Midwife 6cp

Part time

Year 1

Autumn semester
92622 Becoming a Midwife 6cp
92272 Anatomy and Physiology: Pregnancy and Childbirth 6cp

Year 2

Autumn semester
92271 Foundations of Midwifery Practice 6cp
92632 Midwifery Practice 1: Preparation for Practice 6cp

Spring semester
92634 Transitions to Parenthood 6cp
92630 Midwifery Practice 2: Supporting Women 6cp

Year 3

Autumn semester
92631 Midwifery as Primary Health Care 6cp
92282 Australian Health Care System 6cp
99636 Essentials of Pathophysiology 6cp

Spring semester
92621 Aboriginal and Torres Strait Islander: Women and Babies 6cp
92286 International Perspectives in Midwifery 6cp
92282 Australian Health Care System 6cp
91604 Introductory Pharmacology and Microbiology 6cp

Year 4

Autumn semester
92624 Complex Pregnancy 6cp
92626 Midwifery Practice 3: Complex Pregnancy 6cp
92920 Complex Newborn Care 6cp

Spring semester
92623 Complex Labour, Birth and Puerperium 6cp
92627 Midwifery Practice 4: Complex Labour, Birth and Puerperium 6cp
92283 Challenges in Midwifery Practice 6cp

Year 5

Autumn semester
92625 Emergencies in Maternity Care 6cp
92628 Midwifery Practice 5: Working with Women 6cp

Spring semester
92633 Professional Practice 6cp
92629 Midwifery Practice 6: Transitions to Being a Midwife 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Honours
The Bachelor of Midwifery (Honours) (C09051) (see page 119) is available to eligible students with an additional year of full-time study, or two years of part-time study.

Professional recognition
Provides eligibility to apply for registration as a midwife with the Nursing and Midwifery Board of Australia. See the faculty rules for more information.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

C10226v3 Bachelor of Business
Award(s): Bachelor of Business (BBus)
CRICOS code: 063721A
Commonwealth-supported place?: No
Load credit points: 144
Course EFTSL: 3
Location: Shanghai University

Note(s)
This course is only offered offshore. It is available in Shanghai. The language of tuition is English.

Overview
The Bachelor of Business offers students a sound background in all areas of business through common core subjects, in addition to in-depth knowledge in one or more chosen areas of interest. This course provides a basic understanding of important aspects of business with a choice of majors.

Course aims
The degree seeks to provide students with the knowledge, competencies and values necessary to develop critical, analytical and evaluative skills essential for a fulfilling and effective career in business.

Career options
Career options include careers in international business and management.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
In addition to the academic and English language requirements, students who have successfully completed Commerce offered at SILC (Sydney Institute of Language and Commerce in Shanghai University), are also required to achieve:
- a WAM of 60 for the graduates of the Insearch Diploma of Business Studies, or
- a WAM of 50 for the graduates of the Insearch Diploma of Business and Commerce.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Assumed knowledge
Mathematics and any two units of English. Bridging courses are available.

Credit recognition
According to the agreement between Shanghai University (SU) and UTS, students from SU who meet both the English language requirement and the academic requirement can apply for the UTS Bachelor of Business and are given credit recognition for their studies at SU. These students are granted one-year credit or advanced standing to the second year of the UTS Bachelor of Business. This advanced standing practice is the same as that for the Insearch UTS Diploma of Business Studies and Diploma of Business and Commerce delivered in Sydney.
Students who do not have the SILC diploma but who have appropriate academic and English language requirements may apply for advanced standing.

Course duration and attendance
The eight subjects taught by UTS are delivered in two teaching blocks with all the subjects completed in one year. The subjects are delivered in a lecture/tutorial format. During each 12-week block, UTS academics coordinate these subjects and provide face-to-face lectures in Shanghai.
The delivery pattern of these subjects may be modified from time-to-time and by mutual agreement.

Course structure
There are two majors for this course that are delivered by UTS at Shanghai University: the Management major and the International Business major.
The structure of the delivery mode in Shanghai University is:
- The first part (48 credit points) comprises the Insearch Diploma of Business Studies or the Insearch Diploma of Business and Commerce. This part is equivalent to the core or the first year of the UTS Bachelor of Business. This part is delivered in standard, full-time mode with semester-long subjects through SILC. On successful completion, students are granted one-year credit or advanced standing to the second year of the UTS Bachelor of Business.
- The second part of the UTS Bachelor of Business (48 credit points) comprises the Management major or the International Business major in the UTS Bachelor of Business. Academics from UTS teach eight subjects over two teaching blocks in one year. The subjects are delivered in Shanghai University using a lecture/tutorial format.
- The third part of the UTS Bachelor of Business comprises 48 credit-points of non-specified elective subjects taught by Shanghai University. These electives are drawn from a range of degree-level subjects offered in English by SU in standard full-time mode as semester-long subjects. The subjects are accredited as part of the UTS Bachelor of Business in accordance with UTS’ quality assurance policies and processes.

Course completion requirements
STM90273 Core subjects (Business) 48cp
CBK90812 Major choice 48cp
CBK90813 Year 3 (Business) 48cp
Total 144cp

Transfer between UTS courses
The following study options are available to Shanghai University students who wish to transfer to study a full year of the course at UTS in Sydney.
- Major (48 credit points): Students need to seek advice at the time of enrolment as to which major they are eligible to take based on their prior knowledge and the timetabling of subjects during their chosen semesters. Students who study the UTS Management major at Shanghai University are not allowed to undertake the Management major in Sydney.
- Two sub-majors (24 credit points each) or one sub-major and four electives (24 credit points each): Students need to seek advice at the time of enrolment as to which sub-majors, electives and subjects they are eligible to take based on their prior knowledge and the timetabling of subjects during their chosen semesters.

Other information
The overall responsibility for all academic aspects of the Bachelor of Business degree at Shanghai University resides with the Director of China Business Courses, Associate Professor Kylie Redfern and the Dean of the Faculty of Business, Professor Roy Green. UTS staff works closely with senior staff from SILC and Shanghai University in relation to all aspects of the course through the dual degree management committee.
Associate Professor Kylie Redfern
telephone +61 2 9514 3917
e-mail Kylie.Redfern@uts.edu.au

232 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10227v3 Bachelor of Science in Environmental Forensics

Award(s): Bachelor of Science in Environmental Forensics (BSc)
UAC code: 607030
CRICOS code: 03263C
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
This course provides graduates with skills for careers in the new and fast-developing discipline of environmental forensics that is integral to the processes of environmental protection. It focuses on studies of living and non-living components of the environment and on the impacts of human use of environmental resources on the ecosystem.

The course has an interdisciplinary approach that allows students to gain skills and knowledge through theoretical and practice-based field and laboratory studies of ecology and environmental chemistry, and to understand the importance of investigatory scientific evidence in the legal and regulatory framework that governs the environmental protection process.

This cross-disciplinary course gives students the opportunity to combine studies of environmental biology, chemistry and law with a choice of further specialisations via a sub-major. It is attractive to students who are interested in the broad application of science to other disciplines without necessarily undertaking a combined degree.

Course aims
The course aims to produce professional environmental scientists with a solid scientific background in environmental protection, thereby enabling them to contribute to environmental management, policy and planning processes. Graduates gain scientific training and an understanding of the legal framework underlying environmental protection.

Career options
Career options include positions in both government and private industry and in environment protection and natural resource management as environmental analysts and consultants, environmental scientists and managers, policy advisers and planners. Students can also develop careers in teaching (in the secondary or TAFE sector, or as education officers) or in research (as research officers for organisations, universities or CSIRO).

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 5.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 6.0; or TOEFL: internet based: 79-93 overall with a writing score of 6.0; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; any two units of English; and any two units of science.

Course duration and attendance
Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>65111 Chemistry 1</td>
<td>65212 Chemistry 2</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91107 The Biosphere</td>
<td>91123 Biocomplexity</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91161 Cell Biology and Genetics</td>
<td>91400 Human Anatomy and Physiology</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>33116 Statistical Design and Analysis</td>
<td>68041 Physical Aspects of Nature</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td>2</td>
<td>91119 Geological Processes</td>
<td>79023 Environmental Forensic Law</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91110 Experimental Design and Sampling</td>
<td>65621 Environmental Chemistry</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91154 Ecology</td>
<td>91159 Environmental Forensics</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>79004 Environmental Law and Science</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td>3</td>
<td>91120 GIS and Remote Sensing</td>
<td>91121 Aquatic Ecology</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91309 Biodiversity Conservation</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>91121 Aquatic Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6cp</td>
<td></td>
</tr>
</tbody>
</table>

at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

Course structure
Students must complete a total of 144 credit points, made up of 120 credit points of core subjects and 24 credit points of elective subjects. The elective subjects enable students to increase their expertise in other areas of science or in other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects. Students must satisfactorily complete all core subjects and the required number of credit points of elective/ sub-major subjects for award of the degree.

Industrial training/professional practice
Opportunities for practical experience exist through electives that provide experience in research or general scientific practice.

Course completion requirements
STM90680 Foundation stream (Life and Environmental Sciences) 48cp
STM90739 Core disciplinary subjects (Environmental Biology) 36cp
79004 Environmental Law and Science 6cp
79023 Environmental Forensic Law 6cp
91309 Biodiversity Conservation 6cp
91155 Stream and Lake Assessment 6cp
CBK90577 Sub-major/Electives (Environmental Science) 24cp
91159 Environmental Forensics 6cp
65621 Environmental Chemistry 6cp
Total 144cp

Course program
The program shown assumes full-time attendance, commencing in Autumn semester.

Note: The subjects 79004 Environmental Law and Science and 79023 Environmental Forensic Law are only offered in odd-numbered years. The course program provided below is for students commencing Year 1 or Year 3 in an odd-numbered year, e.g. 2013.

Students entering Year 2 in an odd-numbered year, e.g. 2013, should choose 79004 Environmental Law and Science and 79023 Environmental Forensic Law in place of two of their Autumn and/or Spring semester electives. These students will then do the two electives instead of 79004 Environmental Law and Science and 79023 Environmental Forensic Law in Year 3.

Year 1
Autumn semester
65111 Chemistry 1 6cp
91107 The Biosphere 6cp
91161 Cell Biology and Genetics 6cp
33116 Statistical Design and Analysis 6cp
Spring semester
65212 Chemistry 2 6cp
91123 Biocomplexity 6cp
91400 Human Anatomy and Physiology 6cp
68041 Physical Aspects of Nature 6cp

Year 2
Autumn semester
91119 Geological Processes 6cp
91110 Experimental Design and Sampling 6cp
91154 Ecology 6cp
79004 Environmental Law and Science 6cp
Spring semester
79023 Environmental Forensic Law 6cp
65621 Environmental Chemistry 6cp
91159 Environmental Forensics 6cp
Select 6 credit points of electives 6cp

Year 3
Autumn semester
91120 GIS and Remote Sensing 6cp
91309 Biodiversity Conservation 6cp
91121 Aquatic Ecology 6cp
Select 6 credit points of electives 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### C10228v3 Bachelor of Science in Marine Biology

**Award(s):** Bachelor of Science in Marine Biology (BSc)  
**UAC code:** 607035  
**CRICOS code:** 053205D  
**Commonwealth-supported place?:** Yes  
**Load credit points: 144**  
**Course EFTSL:** 3  
**Location:** City campus

**Note(s):**  
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

### Overview

This course focuses on how the marine environment works and how it can be better managed. This requires a thorough understanding of the way plants, animals and micro-organisms function in marine ecosystems (including estuarine, coastal, oceanic and coral reef ecosystems and Antarctica), as well as the skills required to detect and assess detrimental impacts on these marine environments resulting from anthropogenic sources and climate change.

The course has a strong practical and field-based focus. Students learn important concepts and skills through a combination of theory, laboratory and real-world experience via field trips to a range of marine environments.

### Career options

Career options include positions in government departments such as fisheries, national parks and wildlife, state environmental protection authorities and other state departments such as infrastructure, natural resources and planning. Graduates are also employed by local coastal councils as environmental officers, in resource industries and consulting firms, as research officers with CSIRO and at universities, and as teachers at schools and TAFE colleges.

### Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

### International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Assumed knowledge

Mathematics; any two units of English; and any two units of science.

### Course duration and attendance

Students can complete the course over three years full time. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects per semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

### Course structure

Students must complete a total of 144 credit points, made up of 120 credit points of core subjects and 24 credit points of elective subjects. The elective subjects enable students to increase their expertise in other areas of science or other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects.

Students must satisfactorily complete all core subjects and the required number of credit points of elective/second major subjects for award of the degree.

### Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90680</td>
<td>Foundation stream (Life and Environmental Sciences)</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90739</td>
<td>Core disciplinary subjects (Environmental Biology)</td>
<td>36cp</td>
</tr>
<tr>
<td>66513</td>
<td>Marine Geosciences</td>
<td>6cp</td>
</tr>
<tr>
<td>91118</td>
<td>Fisheries Resources</td>
<td>6cp</td>
</tr>
<tr>
<td>91126</td>
<td>Coral Reef Ecosystems</td>
<td>6cp</td>
</tr>
<tr>
<td>91156</td>
<td>Marine Primary Producers</td>
<td>6cp</td>
</tr>
<tr>
<td>91157</td>
<td>Marine Communities</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90577</td>
<td>Sub-major/Electives (Environmental Science)</td>
<td>24cp</td>
</tr>
<tr>
<td>91363</td>
<td>Animal Behaviour and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total 144cp</td>
<td></td>
</tr>
</tbody>
</table>

### Course program

The program shown assumes full-time attendance, commencing in Autumn semester.

#### Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>65111</td>
<td>Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>91107</td>
<td>The Biosphere</td>
<td>6cp</td>
</tr>
<tr>
<td>91161</td>
<td>Cell Biology and Genetics</td>
<td>6cp</td>
</tr>
<tr>
<td>33116</td>
<td>Statistical Design and Analysis</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91123</td>
<td>Biocomplexity</td>
<td>6cp</td>
</tr>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>68041</td>
<td>Physical Aspects of Nature</td>
<td>6cp</td>
</tr>
</tbody>
</table>

#### Year 2

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91149</td>
<td>Geological Processes</td>
<td>6cp</td>
</tr>
<tr>
<td>91110</td>
<td>Experimental Design and Sampling</td>
<td>6cp</td>
</tr>
<tr>
<td>91154</td>
<td>Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
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</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91363</td>
<td>Animal Behaviour and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91157</td>
<td>Marine Communities</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
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</tr>
</tbody>
</table>

#### Year 3

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91120</td>
<td>GIS and Remote Sensing</td>
<td>6cp</td>
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<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>91118</td>
<td>Fisheries Resources</td>
<td>6cp</td>
</tr>
<tr>
<td>66513</td>
<td>Marine Geosciences</td>
<td>6cp</td>
</tr>
<tr>
<td>91121</td>
<td>Aquatic Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91126</td>
<td>Coral Reef Ecosystems</td>
<td>6cp</td>
</tr>
<tr>
<td>91145</td>
<td>Environmental Protection and Management</td>
<td>6cp</td>
</tr>
<tr>
<td>91156</td>
<td>Marine Primary Producers</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Honours
Honours is available as an additional year to meritorious students.

Professional recognition
Australian Marine Science Association

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10229v3 Bachelor of Science in Games Development
Award(s): Bachelor of Science in Games Development [BSc]
UAC code: 603225
CRICOS code: 057197M
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Overview
This course offers a sound education in all aspects of information technology and develops the diverse skills necessary for a career in computer games development. Students gain enhanced work-ready expertise in games development, practical problem-solving skills based on leading-edge IT theory, communication skills in a variety of forms including written, verbal, online and technical literacies; and an awareness of the principles of ethics and corporate governance in a variety of settings.

Course aims
This course aims to produce graduates who are able to:
• apply core technical skills to problem analysis and decision-making in computer games development
• collaborate and be creative within a professional environment through the application of technical, problem-solving and teamwork skills
• communicate effectively in a variety of forms across diverse business and technical environments
• apply ethical, legal and political considerations to technological issues as socially responsible professionals
• demonstrate a capacity to take a leadership role in technical and business situations, and
• be proactive and reflective learners in relation to knowledge, skills, experience and career direction.

Career options
Career options include computer animation / graphics specialist, and computer games developer, systems analyst, analyst / programmer, IT project manager, software developer, software engineer or web developer.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
Non-current school leavers are advised to complete the employment question on their UAC application and provide supporting statements of employment to UAC as bonus points may be awarded on the basis of relevant work experience.
Applicants who have successfully completed 19050 Diploma of Information Technology (Games Development) at TAFE NSW may be eligible for credit towards this course.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirements: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Both school leavers and non-current school leavers may apply through UAC for this course. This course does not have an intake commencing in Spring semester.

Assumed knowledge
Mathematics and any two units of English.
HSC Mathematics Extension 1 and English Advanced are recommended.

External articulation
Students who have completed the Diploma of Information Technology (Games Development) (19050) at TAFE NSW receive an exemption from three core subjects (31266, 48023, 48024) and 30 credit points of advanced standing, totalling 48 credit points of credit recognition.

Credit recognition
In addition to the external articulation with TAFE NSW, students who have previously undertaken other study at a university or other recognised tertiary education institution may be eligible for some academic credit for their prior study if the subjects previously completed are deemed by the Faculty of Engineering and Information Technology to be equivalent to subjects in the course. The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. Students must be able to demonstrate that their knowledge is current. Credit recognition is not normally granted in this course for study completed at a private college except where UTS has an external articulation agreement with the college. TAFE IT diplomas and advanced diplomas completed within three years of enrolment may be granted some credit recognition. For further details see: www.it.uts.edu.au / courses / undergraduate / credit-recognition.html

There are no exemptions granted for the networking subjects 31270, 31277 and 31283 without the successful completion of the challenge test for each of the these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and / or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance
The course can be completed in three years of full-time or six years of part-time study. For students who receive the 48 credit points in credit recognition, the course can be completed in two years of full-time or four years of part-time study. A significant number of subjects are offered in the evening but some daytime attendance is required for part-time students.

Course structure
Students are required to complete 144 credit points, comprising 48 credit points of IT core subjects, 48 credit points of games development course subjects, and 48 credit points of elective subjects. Eligible students who receive 48 credit points of credit recognition complete a total of 96 credit points of academic study.

Industrial training/professional practice
Industrial training is available as an additional year and students enrol into the Diploma in Information Technology Professional Practice (C20049) (see page 299) once they have secured suitable full-time employment. This incorporates a minimum of nine months full-time work experience with four supporting subjects at UTS.

Course completion requirements
STM90651 Core subjects (Information Technology) 48cp
STM90726 Core subjects (Games Development) 48cp
CBK90413 Two sub-majors / Electives 48cp
Total 144cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries. 235
Students are advised to read the General Information and Course area Information sections in conjunction with specific course entries.

Course diagram

Direct entry

Core subjects (IT)
8 x 6-credit-point subjects
Total 48 credit points

Core subjects (Games)
8 x 6-credit-point subjects
Total 48 credit points

Sub-major
4 x 6-credit-point subjects
Total 24 credit points

Electives
8 x 6-credit-point subjects
Total 48 credit points

TAFE articulation entry

TAFE 19005D DipIT (Games)
3 core subjects [31266, 48023, 48024]
30-credit-point advanced standing
Total 48 credit points

Core subjects (IT)
6 x 6-credit-point subjects
Total 36 credit points

Core subjects (Games)
7 x 6-credit-point subjects
Total 42 credit points

Electives
3 x 6-credit-point subjects
Total 18 credit points

Enterprise systems development sub-major
3 x 6-credit-point subjects
Total 18 credit points

Course program

Example programs are shown below for direct entry and TAFE NSW articulation entry.

Note: Subjects listed as options are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Direct entry

Year 1

Autumn semester
31268 Web Systems 6cp
31265 Communication for IT Professionals 6cp
31266 Introduction to Information Systems 6cp
48023 Programming Fundamentals 6cp

Spring semester
31269 Business Requirements Modelling 6cp
48024 Applications Programming 6cp
31270 Networking Essentials 6cp
31080 Digital Multimedia 6cp

Year 2

Autumn semester
31264 Introduction to Computer Graphics 6cp
31271 Database Fundamentals 6cp
31262 Introduction to Computer Game Design 6cp
Select 6 credit points of electives 6cp

Spring semester
Select one subject from the following:
31241 3D Computer Animation 6cp
31249 Computer Graphics Rendering Techniques 6cp
31251 Data Structures and Algorithms 6cp
31263 Introduction to Computer Game Programming 6cp
31104 Programming for Special Effects 6cp
Select 18 credit points of electives 18cp

Year 3

Autumn semester
31272 Project Management and the Professional 6cp
31102 Game Design Studio 1 6cp
Select one subject from the following:
31241 3D Computer Animation 6cp
31249 Computer Graphics Rendering Techniques 6cp
31251 Data Structures and Algorithms 6cp
31263 Introduction to Computer Game Programming 6cp
31777 Human-Computer Interaction 6cp
31104 Programming for Special Effects 6cp
Select 6 credit points of electives 6cp

Spring semester
31103 Game Design Studio 2 6cp
Select 18 credit points of electives 18cp

TAFE NSW articulation

Year 1

Autumn semester
31262 Introduction to Computer Game Design 6cp
31264 Introduction to Computer Graphics 6cp
31265 Communication for IT Professionals 6cp
31268 Web Systems 6cp

Spring semester
31269 Business Requirements Modelling 6cp
31270 Networking Essentials 6cp
31271 Database Fundamentals 6cp
31080 Digital Multimedia 6cp

Year 2

Autumn semester
31272 Project Management and the Professional 6cp
31102 Game Design Studio 1 6cp
Select one subject from the following:
31241 3D Computer Animation 6cp
31249 Computer Graphics Rendering Techniques 6cp
31251 Data Structures and Algorithms 6cp
31263 Introduction to Computer Game Programming 6cp
31777 Human-Computer Interaction 6cp
31104 Programming for Special Effects 6cp
Select 6 credit points of electives 6cp

Spring semester
31103 Game Design Studio 2 6cp
Select 12 credit points of electives 12cp

Honours

Students interested in research and who excel in their studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C09019) (see page 111). The honours year is also available on a part-time basis over two years.

Students are advised to read the General Information and Course area Information sections in conjunction with specific course entries.
## Professional recognition
Graduates are eligible for professional-level membership of the Australian Computer Society.

## Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

## C10235v2 Bachelor of Accounting

**Award(s):** Bachelor of Accounting (BAcc)

**UAC code:** 601010  
**Commonwealth-supported place?:** Yes  
**Load credit points:** 150  
**Course EFTSL:** 3.125  
**Location:** City campus

### Note(s)
- This course is only offered to local students.
- This is a scholarship degree intended for recent school leavers. Students can only add this course to their preferences until 26 October 2012.
- This course is not offered to international students.

### Overview
The Bachelor of Accounting is a cooperative education program in accounting. It is an intensive course offered in conjunction with major employers. Students complete a compulsory first major in accounting and receive a scholarship and full-time work training.

This course is a specialist degree for high-achieving students who view an accounting career as an excellent foundation for future business leadership. All students in the course receive a $46,500 scholarship over the three years, a year of full-time industry experience and are encouraged to complete a second major or sub-major in another business discipline. It has a historical graduate employment rate greater than 95 per cent.

### Career options
Career options include accountant, auditor, business analyst, investment manager, management accountant, taxation adviser. Experienced accountants are highly sought after in all industries as well as government and not-for-profit organisations.

### Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

This is an intensive scholarship course for current school leavers. Special application and selection procedures apply, including an early closing date for applications. Full details on application and selection is available from the Bachelor of Accounting website at: www.business.uts.edu.au/bofacc

Eligibility for admission does not guarantee offer of a place.

### Assumed knowledge
Mathematics and any two units of English.

### Course duration and attendance
The course is completed in three years of full-time study, which includes two separate half years of full-time work training. Some subjects are fast-tracked over Summer session, while others are taken part-time during full-time work training, to allow completion of the degree within three years.

### Course structure
The course comprises 150 credit points. All students must complete nine foundation core subjects and a compulsory accounting major, and choose from a second major, two sub-majors, or a sub-major plus four electives. Electives or structured elective sequences (totalling 24 credit points) can be taken from any faculty in the University, or from another university or its equivalent, with faculty approval.

### Industrial training/professional practice
This course includes two, full-time, six-month industry internships, with two different sponsoring employers.

The first internship is in the second half of the first year of the course; the second internship is in the first half of the third year of the course. Students are not paid by the sponsoring employer during these internships, but continue to receive their scholarship.

### Course completion requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Code</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90186 Major/Two sub-majors/Sub-major</td>
<td>48cp</td>
<td></td>
</tr>
<tr>
<td>MAJ08437 Accounting</td>
<td>48cp</td>
<td></td>
</tr>
<tr>
<td>STM90285 Core subjects (Accounting)</td>
<td>54cp</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>150cp</td>
<td></td>
</tr>
</tbody>
</table>

### Course diagram

- **Core subjects**: 9 x 6-credit-point subjects  
  Total 54 credit points

- **Compulsory Accounting major**: 8 x 6-credit-point subjects  
  Total 48 credit points

- **Second major**: 8 x 6-credit-point subjects  
  Total 48 credit points

- **Sub-major**: 24 credit points  
  Total 48 credit points

- **Second sub-major**: 24 credit points  
  Total 48 credit points

- **Electives**: 24 credit points  
  Total 48 credit points
Course program

A typical program is shown below, followed by the lists of available second majors and sub-majors.

**Year 1**

**Autumn semester**

- 22107 Accounting for Business Decisions A 6cp
- 22207 Accounting for Business Decisions B 6cp
- 22605 Accounting Information Systems 6cp
- 25300 Fundamentals of Business Finance 6cp
- 23115 Economics for Business 6cp
- 26100 Integrating Business Perspectives 6cp
- 26134 Business Statistics 6cp

**Spring semester**

- 22157 Australian Corporate Environment 6cp
- 24108 Marketing Foundations 6cp

**Year 2**

**Autumn semester**

- 22321 Cost Management Systems 6cp
- 22421 Management Decisions and Control 6cp
- 79017 Taxation Law 6cp
- Select 12 credit points of electives 12cp

**Spring semester**

- 79014 Applied Company Law 6cp
- 22320 Accounting for Business Combinations 6cp
- 22420 Accounting Standards and Regulations 6cp
- Select 12 credit points of electives 12cp

**Year 3**

**Autumn semester**

- 22522 Assurance Services and Audit 6cp

**Spring semester**

- Select one of the following: 6cp
  - 22520 Corporate Reporting; Professional and Conceptual Issues
  - 22319 Financial Statement Analysis (Casptone) 6cp
- Select 24 credit points of electives 24cp

**List of majors**

MAJ0041 Information Technology 48cp
MAJ08068 Financial Services 48cp
MAJ08438 Management 48cp
MAJ08440 Finance 48cp
MAJ08441 Marketing 48cp
MAJ08442 International Business 48cp
MAJ08443 Tourism Management 48cp
MAJ08445 Sport Management 48cp
MAJ08446 Human Resource Management 48cp
MAJ08116 Marketing Communication 48cp
MAJ09401 Business Law 48cp
MAJ09209 Economics 48cp

**List of sub-majors**

SMJ01025 Quantitative Management 24cp
SMJ01007 Mathematics 24cp
SMJ01009 Statistics 24cp
SMJ02036 Business Information Systems 24cp
SMJ08116 Financial Reporting 24cp
SMJ08117 International Accounting 24cp
SMJ08120 Small Business Accounting 24cp
SMJ08109 Management Consulting 24cp
SMJ08123 Finance 24cp
SMJ08126 Sport Management 24cp
SMJ08127 Tourism Management 24cp
SMJ08128 Human Resource Management 24cp
SMJ08129 International Management 24cp
SMJ08130 Management 24cp
SMJ08137 Advertising 24cp
SMJ08138 Marketing 24cp
SMJ08139 International Business Studies 24cp
SMJ08141 Human Resource Development 24cp
SMJ09028 Economics 24cp
SMJ09030 Business Law 24cp
SMJ08131 Advanced Advertising 24cp
SMJ09033 Taxation Law 24cp
SMJ09034 International Studies 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08195 Management Reporting 24cp
SMJ02037 Information Technology 24cp
SMJ09035 Language other than English 24cp
SMJ08132 Marketing Research 24cp
SMJ09058 Econometrics 24cp
SMJ08203 Event Management 24cp
SMJ08204 Strategic Marketing 24cp
SMJ08211 Public Relations 24cp
SMJ08214 Financial Planning 24cp

**Honours**

A Bachelor of Business (Honours) (C09004) (see page 108) is available. This is offered on a one-year, full-time basis.

**Professional recognition**

Students successfully completing the Bachelor of Accounting satisfy the educational requirements for undergraduate membership of CPA Australia, the Institute of Chartered Accountants in Australia and Institute of Public Accountants.

**Other information**

Further information is available from: www.business.uts.edu.au/bofac or contact:

Office of Cooperative Education
School of Accounting
telephone +61 2 9514 3579

**C10239v1 Bachelor of Science in Information Technology Bachelor of Arts in International Studies**

Award(s): Bachelor of Science in Information Technology (BSc)
Bachelor of Arts in International Studies (BA)
UAC code: 609230
CRICOS code: 059726G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

**Overview**

This course integrates a professional degree in information technology with a major in another country or culture and its language, enhancing professional training and career options.

The information technology component provides a sound education in all aspects of computing and information technology for a career in the profession.

The international studies component offers an in-depth understanding of another culture through academic and experiential learning.

Students must choose one IT major in business information systems management, enterprise systems development, internetworking and applications, or computer and data analytics.

Students also choose a country major for their language and culture studies.

The course adopts a practice-based approach to IT education and the course content is designed with a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in business analysis, problem solving, teamwork and communication. Employers look for graduates with industry experience and, in this course, students are exposed to real IT problems.

The international studies component of this course means that graduates have the added advantage of being well prepared to work in a diverse range of IT careers and companies overseas.
Course aims
The course aims to produce graduates who are able to apply, in the context of any organisation, the knowledge and skills required of:

- information systems professionals in business units who integrate packaged systems rather than develop systems from first principles.
- information technology professionals who develop systems from first principles.
- network specialists who build, maintain and administer complex network systems, or
- computing specialists for technical research careers.

The course also aims to:

- provide sufficient language skills to live and work in another culture, and
- encourage understanding and appreciation of, and sensitivity towards, diverse cultural perspectives, practices, needs and values, in international and local contexts.

Career options
Career options include business analyst, network engineer, network specialist, software developer, software engineer or web developer. Graduates of this course are in high demand with technology companies and industries that use IT such as banking, construction, energy, finance, government, manufacturing, retail and transport. Options are enhanced by international experience, making students more marketable to prospective employers, including multinational companies.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission requirements are the same as the Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice (C10152) (see page 196).

There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students’ prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

Non-current school leavers are advised to complete the employment question on their UAC application and provide supporting statements of employment to UAC as bonus points may be awarded on the basis of relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
For the information technology component, mathematics and any two units of English. There are no prior language requirements for the international studies program (see page 87).

Mathematics Extension 1 and English Advanced are recommended.

External articulation
Students who gain entry through the UTS INSEARCH pathway are eligible for 48 credit points of credit recognition.

Students who have completed a relevant diploma at TAFE NSW may be eligible for at least 24 credit points of credit recognition. Details are available from the Building 10 Student Centre.

Credit recognition
Information technology component: Students who have previously undertaken study at a university or other recognised tertiary education institution may be eligible for some academic credit for their prior study if the subjects previously completed are deemed by the Faculty of Engineering and Information Technology to be equivalent to subjects in the course.

The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. Students must be able to demonstrate that their knowledge is current.

Credit recognition is not normally granted in this course for study completed at a private college except where UTS has an external articulation agreement with the college. TAFE IT diplomas and advanced diplomas completed within three years of enrolment may be granted some credit recognition. For further details see: www.it.uts.edu.au/courses/undergraduate/credit- recognition.html

There are no exemptions granted for the networking subjects 31270, 31277 and 31283 without the successful completion of the challenge test for each of the these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and/or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance
The course is of five years’ duration. Students spend two semesters of study at a university or other higher education institution in the country of their major. Students may undertake an extra year with the Diploma in Information Technology Professional Practice (C20049) (see page 299).

Course structure
Students are required to complete 240 credit points, comprising 96 credit points in information technology, 96 credit points in international studies and 48 credit points of electives. The 48 credit points of electives can be a combination of a second IT major, or two sub-majors, or one sub-major and four electives, or eight electives.

The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
Industrial training is available as an additional year and students enrol into the Diploma in Information Technology Professional Practice (C20049) (see page 299) once they have secured suitable full-time employment. This incorporates a minimum of nine months full-time work experience with four supporting subjects at UTS.

After completing Year 4 (in-country study), students have the option to undertake the Diploma in Information Technology Professional Practice.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>CBK90781</td>
<td>Major choice (Information Technology)</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90782</td>
<td>Major/Two sub-majors/Electives</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90651</td>
<td>Core subjects (Information Technology)</td>
<td>48cp</td>
</tr>
<tr>
<td>Total</td>
<td>Course program</td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
An example program is shown below for a student choosing the German major for the Bachelor of Arts in International Studies.

Other countries may be chosen from the list of majors in CBK90005, the program has the same structure but with subjects specific to the chosen country major.

A list of the IT majors and IT sub-majors available to students in this course are shown in CBK90782. All students are required to complete one IT major from CBK90781.

In the program shown below, in semesters that include electives, students may choose a second major, two sub-majors (IT or other faculty), one sub-major and four electives, or eight electives.

Note: Subjects listed as electives and IT major subjects are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Year 1**

**Autumn semester**
- 31265 Communication for IT Professionals 6cp
- 31266 Introduction to Information Systems 6cp
- 48023 Programming Fundamentals 6cp
- 31268 Web Systems 6cp

**Spring semester**
- 31269 Business Requirements Modelling 6cp
- 31270 Networking Essentials 6cp
- Select 6 credit points of options 6cp
- Select 6 credit points of electives 6cp

**Year 2**

**Autumn semester**
- 31271 Database Fundamentals 6cp
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- Select 6 credit points of options 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 97602 German Language and Culture 2 8cp
- Select 6 credit points of options 6cp
- Select 6 credit points of electives 6cp

**Year 3**

**Autumn semester**
- 97603 German Language and Culture 3 8cp
- Select 6 credit points of options 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- Select 6 credit points of options 6cp
- Select 6 credit points of electives 6cp

**Year 4**

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp

**Year 5**

**Autumn semester**
- 31272 Project Management and the Professional 6cp
- Select 6 credit points of options 6cp
- Select 12 credit points of electives 12cp

**Spring semester**
- Select 12 credit points of options 12cp
- Select 12 credit points of electives 12cp

**Levels of award**
The Bachelor of Science in Information Technology may be awarded with a distinction, credit or pass.

**Honours**
Students interested in research and who excel in their studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C99019) (see page 111). The honours year is also available on a part-time basis over two years.

**Transfer between UTS courses**
Students in the Bachelor of Science in Information Technology (C10148) (see page 193) can apply to transfer into this course after completing the first year of their current course. Applications are assessed by UTS: Information Technology and UTS: International Studies. Students in this combined degree may apply to transfer to the single degree, Bachelor of Science in Information Technology.

**Professional recognition**
Graduates are eligible for professional-level membership of the Australian Computer Society.

**Other information**
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

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**Course diagram**

Bachelor of Science in Information Technology

- 8 x 6-credit-point core subjects
- Total 48 credit points

- IT major
  - 8 x 6-credit-point subjects
  - Total 48 credit points

  - Second major or
  - Sub-major or
  - Electives

  - 8 x 6-credit-point subjects
  - Total 48 credit points

  - 4 x 6-credit-point subjects
  - Total 24 credit points

  - 4 x 6-credit-point subjects
  - Total 24 credit points

  - 4 x 6-credit-point subjects
  - Total 24 credit points

Bachelor of Arts in International Studies

- 4 x 6-credit-point Language and culture subjects
- 1 x 6-credit-point Contemporary society subject
- 1 x 6-credit-point Foundations in International Studies

- Total 48 credit points

In-country study

- Two semesters
- Total 48 credit points

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Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10242V1 Bachelor of Science

Award(s): Bachelor of Science in (Name of Science major) (BSc)
UAC code: 607001 (Flexible, no specified major), 607003 (Mathematics/Statistics), 607005 (Applied Chemistry), 607007 (Nanotechnology), 607009 (Applied Physics), 607011 (Environmental Biology/Environmental Forensics/Marine Biology), 607015 (Biotecnology/Medical Science/Biomedical Science)
CRICOS code: 040705B
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
Students may follow any of 15 different specialised programs leading to the award of a degree naming the chosen discipline, e.g. Bachelor of Science in Applied Physics, or Medical Science, or any of the other specialised disciplines available. Majors are chosen at the end of first year when students have experienced a range of disciplines and are more equipped to choose their preferred path. Students may also choose not to follow a major, but to select a range of second and third year subjects to tailor their study according to their interests and graduate with a cross-disciplinary science degree. The flexibility of this course allows students to either specialise in a specific professional area or to develop skills and knowledge in a range of scientific disciplines. All majors aim to produce professional scientists with a thorough grounding in theory and highly adaptable and practical scientific, experimental and computational skills relevant to the discipline chosen.

Career options
Graduates are highly versatile as they can work in almost any industry such as biotechnology, biomedical science, medical science, marine biology, environmental management and forensics, mathematics, statistical modelling, applied chemistry, applied physics, nanotechnology and material science. Graduates could be employed to analyse traffic flow, calculate the optimum distribution of branches for major banks, set rates of insurance premiums, analyse the consumer demand for products, be part of a medical team working on groundbreaking research, determine the effectiveness of new drugs, evaluate the environmental impact of pollution or provide advice on the stock market.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-83 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; any two units of English.
At least two units of science relevant to the individual discipline chosen is recommended; HSC Mathematics Extension 1 is recommended for those majoring in mathematics/statistics.

Course duration and attendance
Students can complete the course in three years of full-time study. Full-time attendance involves approximately 20 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

Course structure
Students must complete a total of 144 credit points to graduate. Subjects offered by the University have been classified as introductory (normally taken in stages 1 and 2), intermediate (stages 3 and 4) and advanced (stages 5 and 6 or later). In the Bachelor of Science, students are required to complete one of three introductory foundation streams (mathematical sciences, physical sciences, life and environmental sciences). Upon the successful completion of first year, they may choose one of the majors that follow from that stream. The chosen major specifies a series of intermediate and advanced subjects that, if taken, result in award of a Bachelor of Science in that major.

Alternatively, students may choose not to take a specific major but a flexible mix of subjects of interest and graduate with a Bachelor of Science degree without a specified major. If so, they must complete 36 credit points of intermediate and 36 credit points of advanced science subjects. In doing this, students must ensure that they have completed the required prerequisite subjects at each stage. It cannot be guaranteed that all subjects that students in a flexible program wish to take together can be timetabled without clashes and so students need to check timetabling constraints before final subject choice each semester.

The Bachelor of Science also contains 24 credit points of free elective subjects that enable students to increase their expertise in other areas of science or other disciplines in the University. This can be in the form of a specialised 24-credit-point sub-major or by a varied selection of subjects.

Students must satisfactorily complete 120 credit points of specified major or flexible science subjects and, in addition, 24 credit points of elective/sub-major subjects for award of the degree.

Course completion requirements
CBK90653 Stream choice
144cp
Total 144cp

Course program
The majors available and the course programs for each major are shown below.

Note: In the Environmental Forensics major the subjects 79004 Environmental Law and Science and 79023 Environmental Forensic Law are only offered in odd-numbered years. The course program provided below is for students commencing Year 1 or Year 3 in an odd-numbered year, e.g. 2013. Students entering Year 2 in an odd-numbered year, e.g. 2013, should choose 79004 Environmental Law and Science and 79023 Environmental Forensic Law in place of two of their Autumn and/or Spring semester electives. These students then do the two electives instead of 79004 Environmental Law and Science and 79023 Environmental Forensic Law in Year 3.

List of majors
MAJ01100 Applied Chemistry 96cp
MAJ01101 Applied Physics 96cp
MAJ01103 Biotechnology 96cp
MAJ01104 Biomedical Science 96cp
MAJ01106 Environmental Biology 96cp
MAJ01108 Environmental Forensics 96cp
MAJ01107 Marine Biology 96cp
MAJ01110 Mathematics 96cp
MAJ01105 Medical Science 96cp
MAJ01102 Nanotechnology 96cp
MAJ01111 Statistics 96cp
MAJ01126 Environmental Sciences 96cp
MAJ01127 Medical and Molecular Biosciences 96cp
MAJ01128 Physics and Advanced Materials 96cp
MAJ01129 Chemical Science 96cp
STM90694 No specified major (Life and Environmental Sciences) 96cp
STM90697 No specified major (Physical Sciences) 96cp
Applied Chemistry major

Year 1

Autumn semester
33190 Mathematical Modelling for Science 6cp
65111 Chemistry 1 6cp
68101 Foundations of Physics 6cp
Select 6 credit points from the following options: 6cp
91161 Cell Biology and Genetics 6cp
91107 The Biosphere 6cp

Spring semester
65212 Chemistry 2 6cp
33290 Statistics and Mathematics for Science 6cp
68070 Introduction to Materials 6cp
68201 Physics in Action 6cp

Year 2

Autumn semester
65202 Organic Chemistry 1 6cp
65410 Chemical Safety and Legislation 6cp
63307 Physical Chemistry 1 6cp
Select 6 credit points of electives 6cp

Spring semester
65508 Organic Chemistry 2 6cp
65411 Inorganic Chemistry 1 6cp
65306 Analytical Chemistry 1 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
65409 Analytical Chemistry 2 6cp
65509 Inorganic Chemistry 2 6cp
67305 Polymer Science 6cp
Select 6 credit points of electives 6cp

Spring semester
65606 Analytical Chemistry 3 6cp
65607 Physical Chemistry 2 6cp
67510 Surface Processes 6cp
Select 6 credit points of electives 6cp

Applied Physics major

Year 1

Autumn semester
33190 Mathematical Modelling for Science 6cp
65111 Chemistry 1 6cp
68101 Foundations of Physics 6cp
Select 6 credit points from the following options: 6cp
91161 Cell Biology and Genetics 6cp
91107 The Biosphere 6cp

Spring semester
65212 Chemistry 2 6cp
33290 Statistics and Mathematics for Science 6cp
68070 Introduction to Materials 6cp
68201 Physics in Action 6cp

Year 2

Autumn semester
68075 Nanomaterials 6cp
68412 Energy Science and Technology 6cp
33360 Mathematics for Physical Science 6cp
Select 6 credit points of electives 6cp

Spring semester
68414 Advanced Mechanics 6cp
68413 Quantum Physics 6cp
68315 Imaging Science 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester
68316 Applied Electronics and Interfacing 6cp
68606 Solid-state Science and Nanodevices 6cp
68416 Computational Physics 6cp
Select 6 credit points of electives 6cp

Spring semester
68513 Optics and Nanophotonics 6cp
68320 Scanning Probe and Electron Microscopy 6cp
68415 Measurement and Analysis of Physical Processes 6cp
Select 6 credit points of electives 6cp

Biomedical Science major

Year 1

Autumn semester
65111 Chemistry 1 6cp
91107 The Biosphere 6cp
91161 Cell Biology and Genetics 6cp
33116 Statistical Design and Analysis 6cp

Spring semester
65212 Chemistry 2 6cp
91123 Biocomplexity 6cp
91400 Human Anatomy and Physiology 6cp
68041 Physical Aspects of Nature 6cp

Year 2

Autumn semester
91314 General Microbiology 6cp
91320 Metabolic Biochemistry 6cp
91500 Histology 6cp
CBK90579 Elective 1 6cp

Spring semester
91132 Molecular Biology 1 6cp
CBK90580 Elective 2 6cp
Select 12 credit points from the following options: 12cp
91326 Analytical Biochemistry 6cp
91330 Epidemiology and Public Health Microbiology 6cp
91401 Introductory Haematology and Immunology 6cp

Year 3

Autumn semester
CBK90581 Elective 3 6cp
Select 18 credit points from the following options: 18cp
91335 Molecular Biology 2 6cp
91338 Clinical Bacteriology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91358 Advanced Haematology 6cp
91359 Advanced Immunology 6cp

Spring semester
CBK90582 Elective 4 6cp
Select 18 credit points from the following options: 18cp
91129 Transfusion Science 6cp
91345 Biochemistry, Genes and Disease 6cp
91352 Parasitology 6cp
91402 Anatomical Pathology 6cp

Biotechnology major

Year 1

Autumn semester
65111 Chemistry 1 6cp
91107 The Biosphere 6cp
91161 Cell Biology and Genetics 6cp
33116 Statistical Design and Analysis 6cp

Spring semester
65212 Chemistry 2 6cp
91123 Biocomplexity 6cp
91400 Human Anatomy and Physiology 6cp
68041 Physical Aspects of Nature 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Environmental Forensics major**

**Year 1**
- **Autumn semester**
  - 65111 Chemistry 1 6cp
  - 91107 The Biosphere 6cp
  - 91161 Cell Biology and Genetics 6cp
  - 33116 Statistical Design and Analysis 6cp
- **Spring semester**
  - 65212 Chemistry 2 6cp
  - 91123 Biocomplexity 6cp
  - 91400 Human Anatomy and Physiology 6cp
  - 68041 Physical Aspects of Nature 6cp

**Year 2**
- **Autumn semester**
  - 91120 GIS and Remote Sensing 6cp
  - 91309 Biodiversity Conservation 6cp
  - 91121 Aquatic Ecology 6cp
- **Spring semester**
  - 91155 Stream and Lake Assessment 6cp
  - 91145 Environmental Protection and Management 6cp
  - Select 6 credit points of electives 6cp

**Year 3**
- **Autumn semester**
  - 33360 Mathematics for Physical Science 6cp
  - 65307 Physical Chemistry 1 6cp
  - 68075 Nanomaterials 6cp
- **Spring semester**
  - 91140 BioNanotechnology 6cp
  - 68413 Quantum Physics 6cp
  - 68315 Imaging Science 6cp
  - Select 6 credit points of electives 6cp

**Nanotechnology major**

**Year 1**
- **Autumn semester**
  - 33190 Mathematical Modelling for Science 6cp
  - 65111 Chemistry 1 6cp
  - 68101 Foundations of Physics 6cp
  - Select 6 credit points from the following options: 6cp
  - 91161 Cell Biology and Genetics 6cp
  - 91107 The Biosphere 6cp
- **Spring semester**
  - 65212 Chemistry 2 6cp
  - 33290 Statistics and Mathematics for Science 6cp
  - 68070 Introduction to Materials 6cp
  - 68201 Physics in Action 6cp

**Year 2**
- **Autumn semester**
  - 33360 Mathematics for Physical Science 6cp
  - 65307 Physical Chemistry 1 6cp
  - 68075 Nanomaterials 6cp
- **Spring semester**
  - 91140 BioNanotechnology 6cp
  - 68413 Quantum Physics 6cp
  - 68315 Imaging Science 6cp
  - Select 6 credit points of electives 6cp

**Year 3**
- **Autumn semester**
  - 68316 Applied Electronics and Interfaceing 6cp
  - 67509 Molecular Nanotechnology 6cp
  - 68606 Solid-state Science and Nanodevices 6cp
  - Select 6 credit points of electives 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C10243v1 Bachelor of Science
Bachelor of Arts in International Studies

Award(s): Bachelor of Science in (name of Science major) (BSc)
Bachelor of Arts in International Studies (BA)

UAC code: 609250
CRICOS code: 026202J
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Note(s)
For international students, mid-year (July/August) intake may be considered on a case-by-case basis by the faculty.

Overview
In the science component of this combined degree, students may select any one of 12 different specialised programs leading to the award of a science degree naming the chosen discipline, or students may select a range of science subjects to tailor their study according to their interests. In the international studies component, students are immersed in another language and culture. The combined degree program is aimed at increasing students' awareness of international contexts and producing graduates who are well prepared for professional careers in science in an international setting.

Career options
Career options include those listed for the single Bachelor of Science (C10242) (see page 241) degree, but global opportunities are enhanced by the international perspective provided by the international studies component and by the specific language and culture chosen.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admission policy for the Bachelor of Science (C10242) (see page 241). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program (see page 92) with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; English; and at least one science subject. There are no prior language requirements for the international studies program (see page 87). HSC Mathematics Extension 1 is recommended for those majoring in mathematics/statistics.

Course duration and attendance
This course is offered over five years full time. Full-time attendance involves approximately 20 hours each week on campus. Students spend two semesters of study at a university or other higher education institution in the country of their major.
Course structure
All students must complete 240 credit points of study, comprising 144 credit points relating to the Bachelor of Science and 96 credit points relating to the Bachelor of Arts in International Studies. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Graduation from the science component of the combined degree is not possible prior to completion of all components of the combined degree. Students wishing to graduate with a Bachelor of Science prior to completion of the international studies component of the combined degree must apply for transfer to the Bachelor of Science (C10242) (see page 241) single degree program where they must complete all requirements for the stand-alone single degree.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
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<tr>
<td>CBK90653</td>
<td>Stream choice</td>
<td>144cp</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>240cp</strong></td>
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</tbody>
</table>

Course program
The programs shown are for a student in each of the science majors who has chosen the Germany major as the international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

List of science majors
- MAJ01100 Applied Chemistry 96cp
- MAJ01101 Applied Physics 96cp
- MAJ01103 Biotechnology 96cp
- MAJ01104 Biomedical Science 96cp
- MAJ01106 Environmental Biology 96cp
- MAJ01108 Environmental Forensics 96cp
- MAJ01107 Marine Biology 96cp
- MAJ01110 Mathematics 96cp
- MAJ01105 Medical Science 96cp
- MAJ01102 Nanotechnology 96cp
- MAJ01111 Statistics 96cp
- STM90694 No specified major (Life and Environmental Sciences) 96cp
- STM90697 No specified major (Physical Sciences) 96cp

Applied Chemistry major
**Year 1**

**Autumn semester**
- 33190 Mathematical Modelling for Science 6cp
- 65111 Chemistry 1 6cp
- 68101 Foundations of Physics 6cp
- Select one of the following: 6cp
  - 91161 Cell Biology and Genetics 6cp
  - 91107 The Biosphere 6cp

**Spring semester**
- 33290 Statistics and Mathematics for Science 6cp
- 65212 Chemistry 2 6cp
- 68201 Physics in Action 6cp
- 68070 Introduction to Materials 6cp

**Year 2**

**Autumn semester**
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- 65202 Organic Chemistry 1 6cp
- 65410 Chemical Safety and Legislation 6cp

**Spring semester**
- 97602 German Language and Culture 2 8cp
- 65588 Organic Chemistry 2 6cp
- 65411 Inorganic Chemistry 1 6cp

**Year 3**

**Autumn semester**
- 97603 German Language and Culture 3 8cp
- 65307 Physical Chemistry 1 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- 65306 Analytical Chemistry 1 6cp
- Select 6 credit points of electives 6cp

**Year 4**

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

### Biomedical Science major

#### Year 1

**Autumn semester**
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp
- 91107 The Biosphere 6cp
- 33116 Statistical Design and Analysis 6cp

**Spring semester**
- 97601 German Language and Culture 1 8cp
- 97600 Foundations in International Studies 8cp
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp

**Year 2**

**Autumn semester**
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp

**Spring semester**
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- CBK90580 Elective 2 6cp

**Year 3**

**Autumn semester**
- 91345 Biochemistry, Genes and Disease 6cp
- 91129 Transfusion Science 6cp
- 91352 Parasitology 6cp

**Spring semester**
- 977420 In-country Study 1: Germany 24cp

**Year 4**

**Autumn semester**
- 978420 In-country Study 2: Germany 24cp

**Spring semester**
- 91359 Advanced Immunology 6cp
- CBK90581 Elective 3 6cp

**Year 5**

**Autumn semester**
- 91335 Molecular Biology 2 6cp
- 91336 Biobusiness and Environmental Biotechnology 6cp
- 91335 Molecular Biology 2 6cp
- 91336 Biobusiness and Environmental Biotechnology 6cp

**Spring semester**
- 91144 Plant Biotechnology 6cp
- 91368 Bioreactors and Bioprocessing 6cp
- CBK90582 Elective 4 6cp

Select 6 credit points from the following options: 6cp
- 91345 Biochemistry, Genes and Disease
- 91129 Transfusion Science
- 91352 Parasitology
- 91402 Anatomical Pathology

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### Biotechnology major

#### Year 1

**Autumn semester**
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp
- 91107 The Biosphere 6cp
- 33116 Statistical Design and Analysis 6cp

**Spring semester**
- 65212 Chemistry 2 6cp
- 68041 Physical Aspects of Nature 6cp
- 91123 Biocomplexity 6cp
- 91400 Human Anatomy and Physiology 6cp

**Year 2**

**Autumn semester**
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp

**Spring semester**
- 97602 German Language and Culture 2 8cp
- 91132 Molecular Biology 1 6cp
- Select 12 credit points from the following options: 12cp
- 91326 Analytical Biochemistry 6cp
- 91330 Epidemiology and Public Health Microbiology 6cp
- 91401 Introductory Haematology and Immunology 6cp

**Year 3**

**Autumn semester**
- 97603 German Language and Culture 3 8cp
- 91142 Biotechnology 6cp
- CBK90579 Elective 1 6cp

**Spring semester**
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- CBK90580 Elective 2 6cp

**Year 4**

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp

**Year 5**

**Autumn semester**
- 91369 Biobusiness and Environmental Biotechnology 6cp
- 91335 Molecular Biology 2 6cp
- 91359 Advanced Immunology 6cp
- CBK90581 Elective 3 6cp

**Spring semester**
- 91144 Plant Biotechnology 6cp
- 91368 Bioreactors and Bioprocessing 6cp
- CBK90582 Elective 4 6cp

Select 6 credit points from the following options: 6cp
- 91345 Biochemistry, Genes and Disease
- 91129 Transfusion Science
- 91352 Parasitology

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### Environmental Biology major

#### Year 1

**Autumn semester**
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp
- 91107 The Biosphere 6cp
- 33116 Statistical Design and Analysis 6cp

**Spring semester**
- 65212 Chemistry 2 6cp
- 68041 Physical Aspects of Nature 6cp
- 91123 Biocomplexity 6cp
- 91400 Human Anatomy and Physiology 6cp
### Year 2
#### Autumn semester
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- 91110 Experimental Design and Sampling 6cp
- 91154 Ecology 6cp
#### Spring semester
- 97602 German Language and Culture 2 8cp
- 91270 Plant Physiology and Ecophysiology 6cp
- 91363 Animal Behaviour and Physiology 6cp
#### Year 3
#### Autumn semester
- 97603 German Language and Culture 3 8cp
- 91149 Geological Processes 6cp
- Select 6 credit points of electives 6cp
#### Spring semester
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- Select 12 credit points of electives 12cp
#### Year 4
#### Autumn semester
- 977420 In-country Study 1: Germany 24cp
#### Spring semester
- 978420 In-country Study 2: Germany 24cp
#### Year 5
#### Autumn semester
- 91120 GIS and Remote Sensing 6cp
- 91121 Aquatic Ecology 6cp
- 79004 Environmental Law and Science 6cp
- 91309 Biodiversity Conservation 6cp
#### Spring semester
- 91145 Environmental Protection and Management 6cp
- 79023 Environmental Forensic Law 6cp
- 91155 Stream and Lake Assessment 6cp
- Select 6 credit points of electives 6cp
### Marine Biology major
#### Year 1
#### Autumn semester
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp
- 91107 The Biosphere 6cp
- 33116 Statistical Design and Analysis 6cp
#### Spring semester
- 65212 Chemistry 2 6cp
- 68041 Physical Aspects of Nature 6cp
- 91123 Biocomplexity 6cp
- 91400 Human Anatomy and Physiology 6cp
#### Year 2
#### Autumn semester
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- 91110 Experimental Design and Sampling 6cp
- 91154 Ecology 6cp
#### Spring semester
- 97602 German Language and Culture 2 8cp
- 91270 Plant Physiology and Ecophysiology 6cp
- 91363 Animal Behaviour and Physiology 6cp
- Select 6 credit points of electives 6cp
#### Year 3
#### Autumn semester
- 97603 German Language and Culture 3 8cp
- 91149 Geological Processes 6cp
- Select 6 credit points of electives 6cp
#### Spring semester
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- Select 6 credit points of electives 6cp
- Choose one of the following:
  - 66513 Marine Geosciences 6cp
  - 91118 Fisheries Resources 6cp
- Select 6 credit points of electives 6cp
### Undergraduate Courses

**Spring semester**
- 91156 Marine Primary Producers 6cp
- 91126 Coral Reef Ecosystems 6cp
- 91145 Environmental Protection and Management 6cp

Select 6 credit points of electives 6cp

### Medical Science major

#### Year 1

**Autumn semester**
- 91161 Cell Biology and Genetics 6cp
- 65111 Chemistry 1 6cp
- 91107 The Biosphere 6cp
- 33116 Statistical Design and Analysis 6cp

**Spring semester**
- 65212 Chemistry 2 6cp
- 91123 Biocomplexity 6cp
- 91400 Human Anatomy and Physiology 6cp
- 68041 Physical Aspects of Nature 6cp

#### Year 2

**Autumn semester**
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp

**Spring semester**
- 97602 German Language and Culture 2 8cp
- 91132 Molecular Biology 1 6cp
- 91239 Human Pathophysiology 6cp

#### Year 3

**Autumn semester**
- 97603 German Language and Culture 3 8cp
- 91314 General Microbiology 6cp

Select 6 credit points from the following options:
- 91403 Medical Imaging 6cp
- CBK90579 Elective 1 6cp

**Spring semester**
- 976421 Contemporary Germany 8cp
- 68413 Quantum Physics 6cp

#### Year 4

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp

#### Year 5

**Autumn semester**
- 68316 Applied Electronics and Interfacing 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 67509 Molecular Nanotechnology 6cp

Select 6 credit points of electives 6cp

**Spring semester**
- 68320 Scanning Probe and Electron Microscopy 6cp
- 67510 Surface Processes 6cp

Select 6 credit points of electives 6cp

### Nanotechnology major

#### Year 1

**Autumn semester**
- 33190 Mathematical Modelling for Science 6cp
- 65111 Chemistry 1 6cp
- 68101 Foundations of Physics 6cp

Select one of the following:
- 91161 Cell Biology and Genetics 6cp
- 91107 The Biosphere 6cp

**Spring semester**
- 33290 Statistics and Mathematics for Science 6cp
- 65212 Chemistry 2 6cp
- 68201 Physics in Action 6cp
- 68070 Introduction to Materials 6cp

#### Year 2

**Autumn semester**
- 97601 German Language and Culture 1 8cp
- 976001 Foundations in International Studies 8cp
- 33360 Mathematics for Physical Science 6cp
- 68075 Nanomaterials 6cp

**Spring semester**
- 97602 German Language and Culture 2 8cp
- 68315 Imaging Science 6cp
- 68413 Quantum Physics 6cp

#### Year 3

**Autumn semester**
- 97603 German Language and Culture 3 8cp
- 65307 Physical Chemistry 1 6cp

Select 6 credit points of electives 6cp

**Spring semester**
- 97604 German Language and Culture 4 8cp
- 976421 Contemporary Germany 8cp
- 91140 BioNanotechnology 6cp

Select 6 credit points of electives 6cp

#### Year 4

**Autumn semester**
- 977420 In-country Study 1: Germany 24cp

**Spring semester**
- 978420 In-country Study 2: Germany 24cp

#### Year 5

**Autumn semester**
- 68316 Applied Electronics and Interfacing 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 67509 Molecular Nanotechnology 6cp

Select 6 credit points of electives 6cp

**Spring semester**
- 68320 Scanning Probe and Electron Microscopy 6cp
- 67510 Surface Processes 6cp

Select 6 credit points of electives 6cp

### Mathematics major

#### Year 1

**Autumn semester**
- 35140 Introduction to Quantitative Management 6cp
- 35101 Introduction to Linear Dynamical Systems 6cp
- 35151 Introduction to Statistics 6cp
- CBK90796 Foundation subject choice A 6cp

**Spring semester**
- 35100 Introduction to Sample Surveys 6cp
- 35102 Introduction to Analysis and Multivariable Calculus 6cp
- 35111 Applications of Discrete Mathematics 6cp
- CBK90797 Foundation subject choice B 6cp
### Year 2

#### Autumn semester
- 97601 German Language and Culture 1  8cp
- 35212 Computational Linear Algebra  6cp
- 35241 Optimisation in Quantitative Management  6cp
- 35363 Stochastic Models  6cp

#### Spring semester
- 97602 German Language and Culture 2  8cp
- 35231 Differential Equations  6cp
- 35353 Regression Analysis  6cp

Select 6 credit points from the following options:
- 35335 Mathematical Methods  6cp
- 35342 Nonlinear Methods in Quantitative Management  6cp
- 35344 Network and Combinatorial Optimisation  6cp
- 35355 Quality Control  6cp
- 35391 Seminar (Mathematics)  6cp
- 35393 Seminar (Statistics)  6cp

### Year 3

#### Autumn semester
- 97603 German Language and Culture 3  8cp
- 976001 Foundations in International Studies  8cp

Select 6 credit points of electives  6cp

#### Spring semester
- 97604 German Language and Culture 4  8cp
- 976421 Contemporary Germany  8cp

Select 6 credit points from the following options:
- 35335 Mathematical Methods  6cp
- 35342 Nonlinear Methods in Quantitative Management  6cp
- 35344 Network and Combinatorial Optimisation  6cp
- 35355 Quality Control  6cp
- 35391 Seminar (Mathematics)  6cp
- 35393 Seminar (Statistics)  6cp

### Year 4

#### Autumn semester
- 977420 In-country Study 1: Germany  24cp

#### Spring semester
- 978420 In-country Study 2: Germany  24cp

### Year 5

#### Autumn semester
- 35232 Advanced Calculus  6cp

Select 12 credit points from the following options:
- 35304 Quantitative Management Practice  6cp
- 35252 Mathematical Statistics  6cp
- 35336 Design and Analysis of Experiments  6cp
- 35383 High Performance Computing  6cp

Select 6 credit points of electives  6cp

#### Spring semester
- Select one subject from the following:
- 35355 Quality Control  6cp
- 35361 Stochastic Processes  6cp
- 35393 Seminar (Statistics)  6cp

Select two subjects from the following:
- 35322 Advanced Analysis  6cp
- 35342 Nonlinear Methods in Quantitative Management  6cp
- 35344 Network and Combinatorial Optimisation  6cp

Select 6 credit points of electives  6cp

### Honours

The Bachelor of Science (Honours) is available in all disciplines as an additional year to meritorious students.

### Other information

Further information is available from:
- UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
C10244v1 Bachelor of Forensic Science in Applied Chemistry

Award(s): Bachelor of Forensic Science in Applied Chemistry (BForSc)

Overview
This course prepares students for entry to professional work in the field of applied chemistry or as specialists in the forensic science area. It includes a foundation in the basic sciences, with in-depth development of chemistry and analytical sciences and forensic techniques, emphasising forensic applications.

Course aims
This course aims to produce professional forensic scientists and chemists with highly adaptable and practical scientific skills, accompanied by a thorough grounding in theory.

Career options
Career options include positions in the police service (in crime scene or laboratories), in state and federal law enforcement agencies, in government and private forensic or drug detection laboratories, in environmental protection agencies and in pharmaceutical and chemical industries.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Mathematics; any two units of English; and any two units of science.

Course duration and attendance
Students can complete the course over three years full time. Full-time attendance involves approximately 24 hours each week on campus. Students may also be able to complete the course part time, usually at the rate of two subjects a semester (a 50 per cent load), taking six years to complete. Part-time students are required to attend some sessions in daytime hours.

Course structure
The course comprises 144 credit points of study. Stages 1-4 (the first two years) of the program are similar, though not identical, to the Bachelor of Science (Applied Chemistry major) (C10242) (see page 241). Stages 5-6 (the final year) are strongly focused on forensic studies.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>65111</td>
<td>Chemistry</td>
<td>6cp</td>
</tr>
<tr>
<td>68101</td>
<td>Foundations of Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>91107</td>
<td>The Biosphere</td>
<td>6cp</td>
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<tr>
<td>33920</td>
<td>Statistics and Mathematics for Science</td>
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<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
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<tr>
<td>65242</td>
<td>Principles of Forensic Science</td>
<td>6cp</td>
</tr>
<tr>
<td>68070</td>
<td>Introduction to Materials</td>
<td>6cp</td>
</tr>
<tr>
<td>68201</td>
<td>Physics in Action</td>
<td>6cp</td>
</tr>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
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<tr>
<td>65202</td>
<td>Organic Chemistry 1</td>
<td>6cp</td>
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<tr>
<td>65410</td>
<td>Chemical Safety and Legislation</td>
<td>6cp</td>
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<tr>
<td>65307</td>
<td>Physical Chemistry 1</td>
<td>6cp</td>
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<tr>
<td>65342</td>
<td>Crime Scene Investigation</td>
<td>6cp</td>
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<tr>
<td>65508</td>
<td>Organic Chemistry 2</td>
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<td>65411</td>
<td>Inorganic Chemistry 1</td>
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<td>65306</td>
<td>Analytical Chemistry 1</td>
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<td>Physical Evidence</td>
<td>6cp</td>
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<td>Analytical Chemistry 2</td>
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<td>Chemical Criminalistics</td>
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<td>Forensic Toxicology</td>
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<td>Chemistry and Pharmacology of Recreational Drugs</td>
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<td>35255</td>
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<td>6cp</td>
</tr>
<tr>
<td>65509</td>
<td>Inorganic Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>67305</td>
<td>Polymer Science</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 144cp</td>
<td></td>
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</tr>
</tbody>
</table>

Select 6 credit points from the following options: 6cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65307</td>
<td>Physical Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65342</td>
<td>Crime Scene Investigation</td>
<td>6cp</td>
</tr>
<tr>
<td>65508</td>
<td>Organic Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65411</td>
<td>Inorganic Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65306</td>
<td>Analytical Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65412</td>
<td>Physical Evidence</td>
<td>6cp</td>
</tr>
<tr>
<td>65409</td>
<td>Analytical Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65544</td>
<td>Chemical Criminalistics</td>
<td>6cp</td>
</tr>
<tr>
<td>65545</td>
<td>Forensic Toxicology</td>
<td>6cp</td>
</tr>
<tr>
<td>65607</td>
<td>Physical Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65606</td>
<td>Analytical Chemistry 3</td>
<td>6cp</td>
</tr>
<tr>
<td>65643</td>
<td>Chemistry and Pharmacology of Recreational Drugs</td>
<td>6cp</td>
</tr>
<tr>
<td>65644</td>
<td>Fire and Explosion Investigation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Course program
The program shown assumes full-time attendance, commencing in Autumn semester.

Year 1

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>33910</td>
<td>Mathematical Modelling for Science</td>
<td>6cp</td>
</tr>
<tr>
<td>65111</td>
<td>Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>68101</td>
<td>Foundations of Physics</td>
<td>6cp</td>
</tr>
<tr>
<td>91107</td>
<td>The Biosphere</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>33920</td>
<td>Statistics and Mathematics for Science</td>
<td>6cp</td>
</tr>
<tr>
<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65242</td>
<td>Principles of Forensic Science</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>65202</td>
<td>Organic Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65410</td>
<td>Chemical Safety and Legislation</td>
<td>6cp</td>
</tr>
<tr>
<td>65307</td>
<td>Physical Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65342</td>
<td>Crime Scene Investigation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>65508</td>
<td>Organic Chemistry 2</td>
<td>6cp</td>
</tr>
<tr>
<td>65411</td>
<td>Inorganic Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65306</td>
<td>Analytical Chemistry 1</td>
<td>6cp</td>
</tr>
<tr>
<td>65412</td>
<td>Physical Evidence</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Applicants must have completed an Australian Year 12 qualification, or equivalent

Honours
The Bachelor of Forensic Science (Honours) in Applied Chemistry (C09050) (see page 118) is available as an additional year to meritorious students.

Professional recognition
Graduates are eligible for membership of the Royal Australian Chemical Institute and the Australian and New Zealand Forensic Science Society.

Other information
Further information is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10245v2 Bachelor of Science in Information Technology Bachelor of Laws
Award(s): Bachelor of Science in Information Technology (BSc)
Bachelor of Laws (LLB)
UAC code: 469020
CRICOS code: 064382G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The primary goal of this combined degree is to prepare lawyers with an expert knowledge of IT qualifying them to work as IT professionals in a legal environment.

The law component of this course provides a thorough grounding in Australian legal practice. The information technology component offers a sound education in all aspects of computing and information technology and allows students to gain a specialisation with an IT major.

The information technology component adopts a practice-based approach to IT education and the course content is a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in business analysis, problem solving, teamwork and communication.

Career options
Lawyers with IT skills are in demand. Career opportunities include lawyer or policy adviser in various government departments, in-house legal counsel to an IT or software company, or specialist in areas such as intellectual property, e-commerce and privacy or internet censorship. Alternatively, graduates can work as IT professionals in legal practice, legal publishing or private law firms.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with WTE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP, C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC or equivalent mathematics; and any two units of English. Mathematics Extension 1 and English Advanced are recommended.

Credit recognition
Credit recognition is not normally granted in this course for study completed at a private college, except where UTS has an external articulation agreement with the college. There are no exemptions granted for the networking subjects 31270, 31277 and 31283 without the successful completion of the challenge test for each of the these subjects. A challenge test is granted at enrolment time to students who have completed the CCNA curriculum (or CCNP) at a university and / or TAFE diploma level where the awarding institution is a CISCO Networking Academy. These challenge tests are always held in the week before the commencement of semester.

Course duration and attendance
The course is five years of full-time study. The law component requires attendance of 10–15 hours of lectures a week and timetable constraints require attendance at daytime and evening classes. The IT component normally requires around 12 hours attendance of lectures and seminars a week and attendance at some evening classes may be required. The Diploma in Information Technology Professional Practice (C20049) (see page 299) includes at least nine months of paid work experience in the IT industry.

Course structure
The course comprises a total of 240 credit points, allowing students to graduate with the separate degrees of Bachelor of Science in Information Technology and Bachelor of Laws. The study components for course completion are as follows.

The law component of 144 credit points is made up of:
• 102 credit points of compulsory core law subjects, and
• 42 credit points of law options.

The IT component of 96 credit points is made up of:
• 48 credit points of core IT subjects, and
• 48 credit points of subjects for an IT major.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Students also have the option to undertake the Diploma in Information Technology Professional Practice (C20049) (see page 299) once they have secured suitable full-time employment in the IT industry. This incorporates a minimum of nine months’ full-time paid work experience with four supporting subjects at UTS.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM906901 Law stream</td>
<td>144cp</td>
</tr>
<tr>
<td>STM906905 Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90781 Major choice</td>
<td>48cp</td>
</tr>
<tr>
<td>Total</td>
<td>240cp</td>
</tr>
</tbody>
</table>

Further information is available from: Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
**Course program**

The standard program shown is for a full-time student with law options.  
All options shown are law options and are to be drawn from those on offer in CBK90383.  
All electives shown are IT electives and are to be drawn from those on offer in CBK90781.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90651</td>
<td>Communication for IT Professionals</td>
<td>6cp</td>
</tr>
<tr>
<td>31265</td>
<td>Web Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>STM90688</td>
<td>Perspectives on Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70115</td>
<td>Legal Method and Research</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90651</td>
<td>Introduction to Information Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>31266</td>
<td>Programming Fundamentals</td>
<td>6cp</td>
</tr>
<tr>
<td>48023</td>
<td>Networking Essentials</td>
<td>6cp</td>
</tr>
<tr>
<td>STM90688</td>
<td>Contracts</td>
<td>8cp</td>
</tr>
<tr>
<td>70211</td>
<td></td>
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</tr>
</tbody>
</table>

**Year 2**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90651</td>
<td>Business Requirements Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>31269</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STM90688</td>
<td>Criminal Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70218</td>
<td>Torts</td>
<td>8cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90651</td>
<td>Database Fundamentals</td>
<td>6cp</td>
</tr>
<tr>
<td>31271</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STM90688</td>
<td>Real Property</td>
<td>8cp</td>
</tr>
<tr>
<td>70317</td>
<td>Commercial Law</td>
<td>6cp</td>
</tr>
<tr>
<td>70327</td>
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</tr>
</tbody>
</table>

Select 6 credit points of electives  
6cp

**Year 3**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90688</td>
<td>Australian Constitutional Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70616</td>
<td>Administrative Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70617</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credit points of electives  
6cp

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90688</td>
<td>Equity and Trusts</td>
<td>8cp</td>
</tr>
<tr>
<td>70517</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credit points of options  
6cp

Select 12 credit points of electives  
12cp

**Year 4**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90688</td>
<td>Corporate Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70417</td>
<td>Evidence and Criminal Procedure</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives  
6cp

---

**Levels of award**

The Bachelor of Laws may be awarded with first or second class honours, which do not require an additional honours year. Honours candidates must complete the research thesis subject within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).  
The Bachelor of Science in Information Technology may also be awarded with a distinction, credit or pass.

**Honours**

Students interested in research and who excel in their IT studies are eligible to undertake one additional full-time year of study in the Bachelor of Science (Honours) in Information Technology (C0019) (see page 111). The honours year is also available on a part-time basis over two years.

**Professional recognition**

The IT component qualifies for professional-level membership of the Australian Computer Society.  
The law component of the course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training (PLT) program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

**Other information**

Further information on the law component or the IT component for current students is available from:  
UTS Student Centre  
telephone 1300 ask UTS (1300 275 887)  
or +61 2 9514 1222  
Ask UTS www.ask.uts.edu.au

Further information for future students on the IT component is available from:  
Engineering and Information Technology Outreach Office  
telephone +61 2 9514 2666  
email it@uts.edu.au
Overview
Journalism education at UTS is based on the principle that professional journalism is founded on the public’s right to know. This degree develops professional skills across all media and critically engages with the intellectual, ethical and political foundations of journalism. This course is designed to meet the essential practical skills and theoretical knowledge needed for a career in journalism. Students gain a crucial understanding of the role that journalists play in creating a democratic public sphere, providing a forum for debate and giving voice to diverse communities. The course equips students with advanced research, writing, reporting and analytical skills for print, television, video, radio, audio and online media; and knowledge of the intellectual, ethical and political foundations of journalism.

Career options
Career options include reporters, producers, publishers, editors, sub-editors, feature and freelance journalists, investigative journalists, media researchers, and strategists in the print, broadcast and online media.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
• INSEARCH UTS: Diploma of Communication
• Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
• Temasek Polytechnic: Diploma in Communication and Media Management
• Ngee Ann Polytechnic, Singapore: Diploma in Mass Communication.

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points consisting of a 48-credit-point core program, a 48-credit-point major, a 24-credit-point sub-major and 24 credit points of electives.

Industrial training/professional practice
Students take part in relevant and applied journalism tasks throughout the course and can elect to undertake a professional placement with a media organisation.

Course completion requirements
STMA0050 Core subjects 48cp
MAJ10200 Journalism 48cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Total 144cp

Course program
Typical course programs are shown below for students commencing in either Autumn or Spring semester.

Students must choose a sub-major from CBK90701 in Year 1, Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Autumn commencing
Year 1
Autumn semester
Select one of the following: 8cp
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58110 Introduction to Journalism 8cp
58102 Language and Discourse 8cp

Spring semester
Select one of the following: 8cp
58103 Ideas in History 8cp
58101 Understanding Communication 8cp
58111 Reporting with Sound and Image 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp

Year 2
Autumn semester
58201 Communication and Cultural Industries and Practices 8cp
58112 Reporting and Editing for Print and Online Journalism 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Spring semester
58202 Regulating Communication: Law, Ethics, Politics 8cp
58210 Storytelling, Narrative and Features 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Year 3
Autumn semester
58211 Specialist Reporting, Audiences and Interactivity 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Spring semester
58301 Communication Practice Project 8cp
58310 Media Hub 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222.
Ask UTS www.ask.uts.edu.au
C10247V1 Bachelor of Arts in Communication (Media Arts and Production)

Award(s): Bachelor of Arts in Communication (BA)
UAC code: 600018
CRICOS code: 033247D
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Overview
This course prepares students for a wide range of roles within the media and cultural sectors. Students study the history, contemporary issues and theory of media and culture while developing advanced technical and conceptual skills in film, video, new media and sound. The professional areas within the degree include film, video, television, multimedia, sound, radio, performance and installation, and the interplay among these media forms.

This course explores the history, contemporary issues, theories and challenges of media and culture in society. Students develop sophisticated production skills in video, sound and new media, and enhance their creative innovation in these areas. Students are encouraged to evolve as a creative director and producer of media projects, as well as develop technical proficiency specifically in one media area. By the time of graduation, students should have a professional portfolio of creative production work.

Career options
Career options include arts and cultural administrators, cinematographers, directors, documentary makers, editors, film producers, freelance media artists multimedia designers, new media producers, producers, production managers, program commissioning editors, radio producers, scriptwriters and sound designers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 7.0; or TOEFL: internet based: 94-101 overall with a writing score of 7.0.

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enroll full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points consisting of a 48-credit-point core program, a 48-credit-point major, a 24-credit-point sub-major and 24 credit points of electives.

Industrial training/professional practice
Students undertake production projects each semester. They can elect to participate in professional placement and are encouraged to develop their portfolio and publicly display their works throughout their study through events such as the biennial UTS Golden Eye Awards and other festivals and competitions.

Course completion requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>Sub-major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>Total 144cp</td>
<td></td>
</tr>
</tbody>
</table>

Course program
Typical course programs are shown below for students commencing in either Autumn or Spring semester.

Students must choose a sub-major from CBK90701 in Year 1, Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Autumn commencing

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Autumn</td>
<td>Select one of the following: 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90701 Understanding Communication 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90703 Ideas in History 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90713 Exploring Media Arts 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90102 Language and Discourse 8cp</td>
</tr>
<tr>
<td>1</td>
<td>Spring</td>
<td>Select one of the following: 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90701 Understanding Communication 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90715 Composing the Real 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 8 credit points from the following options: 8cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90701 Sub-major choice 24cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CBK90702 Electives 24cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Select 8 credit points from the following options: 8cp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>CBK90711 Communication and Cultural Industries and Practices 8cp</td>
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<td>CBK90714 Fictions: Storytelling, Narrative and Drama 8cp</td>
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Spring semester

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Year 3

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Spring semester

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Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Public Relations stream, Spring commencing

Year 1

Spring semester
58101 Understanding Communication  8cp
58103 Ideas in History  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp

Year 2

Autumn semester
58201 Communication and Cultural Industries and Practices  8cp
58116 The Ecology of Public Communication  8cp
58102 Language and Discourse  8cp

Spring semester
58202 Regulating Communication: Law, Ethics, Politics  8cp
58117 Principles of Public Relations  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Year 3

Autumn semester
58128 Strategic Public Relations  8cp
Select 16 credit points from the following options:  16cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Spring semester
58214 Media Writing and Production  8cp
58231 Organisational Communication  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Advertising stream, Autumn commencing

Year 1

Autumn semester
Select one of the following:  8cp
58101 Understanding Communication  8cp
58103 Ideas in History  8cp
58116 The Ecology of Public Communication  8cp
58102 Language and Discourse  8cp

Spring semester
Select one of the following:  8cp
58101 Understanding Communication  8cp
58103 Ideas in History  8cp
58116 The Ecology of Public Communication  8cp
58102 Language and Discourse  8cp

Year 2

Autumn semester
58201 Communication and Cultural Industries and Practices  8cp
58129 Advertising Campaign Practice  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Spring semester
58202 Regulating Communication: Law, Ethics, Politics  8cp
58229 Brand Advertising Strategies  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Year 3

Autumn semester
58312 Integrated Communication  8cp
Select 16 credit points from the following options:  16cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Winter semester
58229 Brand Advertising Strategies  8cp
58230 Professional Advertising Practice  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Year 4

Autumn semester
58312 Integrated Communication  8cp
Select 16 credit points from the following options:  16cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Spring semester
58229 Brand Advertising Strategies  8cp
58230 Professional Advertising Practice  8cp
Select 8 credit points from the following options:  8cp
CBK90701 Sub-major choice  24cp
CBK90702 Electives  24cp

Honours

The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.

Professional recognition

This course has professional recognition from the Public Relations Institute of Australia and the International Advertising Association.

- Students wishing to be eligible for professional membership of Public Relations Institute of Australia must successfully complete the two core subjects in MAJ10024 Public Communication and choose STM90716 Public Relations stream (four subjects) as their option.
- Students wishing to be eligible for professional membership of the International Advertising Association must successfully complete the four subjects in STM90715 Advertising stream and in addition STM90717 Principles of Public Relations.
Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10249v1 Bachelor of Arts in Communication (Writing and Cultural Studies)
Award(s): Bachelor of Arts in Communication (BA)
UAC code: 040033
CRICOS code: 026163M
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Overview
In this course, writing is studied as a professional practice that takes place through engagement with contemporary cultures. Writing is studied in both theory and practice, and students apply their skills to a range of genres and different media. Students in the course develop creative writing skills across a range of genres and media and a critical understanding and awareness of cultural and social issues.

Students study both writing and cultural studies as a critical and creative practice. They learn the theories of culture and writing and challenge the practices that produce culture. Through their own writing, they create alternative and innovative ways of communicating in multiple modes.

Students gain the skills to analyse and intervene in social and cultural discourses, practices and institutions, and to practice as cultural researchers. They also explore and develop their own writing ability to high level, giving them the skills to work as writers in a range of contexts across the communications, arts and media sectors.

Career options
Career options include arts and cultural administrators, communication coordinators, communication officers, creative writers, cultural policy officers, cultural researchers, feature writers, media researchers, new media and web producers, and publications officers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
• INSEARCH UTS: Diploma of Communication
• Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
• Temasek Polytechnic: Diploma in Communication and Media Management
• Ngee Ann Polytechnic, Singapore: Diploma in Mass Communication.

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points consisting of a 48-credit-point core program, a 48-credit-point major, a 24-credit-point sub-major and 24 credit points of electives.

Industrial training/professional practice
Students write in diverse forms and genres, do cultural research and analysis, and can elect to undertake a professional placement during their course.

Course completion requirements

<table>
<thead>
<tr>
<th>Course completion requirements</th>
<th>48cp</th>
<th>48cp</th>
<th>24cp</th>
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</table>

Course program
Typical course programs are shown below for students commencing in either Autumn or Spring semester.

Students must choose a sub-major from CBK90701 in Year 1, Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Autumn commencing

Year 1

Autumn semester
- Select one of the following:
  - 58101 Understanding Communication 8cp
  - 58103 Ideas in History 8cp
  - 58119 Text and Context 8cp
  - 58102 Language and Discourse 8cp

Spring semester
- Select one of the following:
  - 58103 Ideas in History 8cp
  - 58101 Understanding Communication 8cp
  - 58121 Fictional Forms 8cp

Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp

Year 2

Autumn semester
- 58201 Communication and Cultural Industries and Practices 8cp
- 58120 Creativity and Culture 8cp

Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Spring semester
- 58202 Regulating Communication: Law, Ethics, Politics 8cp
- 58216 Imagining the Real 8cp

Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 3

Autumn semester
- 58217 Experiments in Culture 8cp

Select 16 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Spring semester
- 58301 Communication Practice Project 8cp
- 58313 Writing Laboratory 8cp

Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Spring commencing

Year 1
Spring semester
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
Year 2
Autumn semester
58201 Communication and Cultural Industries and Practices 8cp
58119 Text and Context 8cp
58102 Language and Discourse 8cp
Spring semester
58202 Regulating Communication: Law, Ethics, Politics 8cp
58121 Fictional Forms 8cp
58216 Imagining the Real 8cp
Year 3
Autumn semester
58217 Experiments in Culture 8cp
58120 Creativity and Culture 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Spring semester
58313 Writing Laboratory 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Year 4
Autumn semester
58301 Communication Practice Project 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10250v1 Bachelor of Arts in Communication (Social Inquiry)
Award(s): Bachelor of Arts in Communication [BA]
UAC code: 600028
CRICOS code: 033019E
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Overview
Social inquiry is where social and political theory and practices of research and communication converge. This cross-disciplinary course investigates society, explores current issues, and questions implications of change and progress in the global community. Students undertake professional studies as well as social, cultural and communication theory and practice so they can ask questions, research issues, develop advocacy skills and effectively develop communication strategies.

This is a cross-disciplinary course in which students combine social, political, historical and philosophical perspectives on what makes us members of society. Is change good, bad or both? Students learn how to understand social issues and how to think through ways of making a difference; how to research and plan contributions to national and international debates. The course equips students with the knowledge and skills to be involved in diverse organisations that want to make changes.

Career options
Career options include community development workers, community project managers, international aid workers, local and community historians, media researchers, policy analysts, policy officers, political advisers, politicians, social researchers, trade union officials, social welfare officers, and change agents in a range of social, cultural, historical and political arenas

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management
- Ngee Ann Polytechnic, Singapore: Diploma in Mass Communication

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points consisting of a 48-credit-point core program, a 48-credit-point major, a 24-credit-point sub-major and 24 credit points of electives.

Industrial training/professional practice
Students can elect to undertake a professional experience project with a community, corporate, non-government or government organisation. There are opportunities for parliamentary placement.

Course completion requirements
STM90550 Core subjects 48cp
MAJ09395 Social Inquiry 48cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Total 144cp

Course program
Typical course programs are shown below for students commencing in either Autumn or Spring semester.

Students must choose a sub-major from CBK90701 in Year 1, Spring semester:
Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.
Autumn commencing

Year 1
Autumn semester
Select one of the following:
- 58101 Understanding Communication 8cp
- 58103 Ideas in History 8cp
- 58122 Introduction to Social Inquiry 8cp
- 58102 Language and Discourse 8cp

Spring semester
Select one of the following:
- 58103 Ideas in History 8cp
- 58101 Understanding Communication 8cp
- 58124 Local Transformations 8cp
Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 2
Autumn semester
- 58201 Communication and Cultural Industries and Practices 8cp
- 58123 Society, Economy and Globalisation 8cp
Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Spring semester
- 58202 Regulating Communication: Law, Ethics, Politics 8cp
- 58218 Ideology, Beliefs and Visions 8cp
Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 3
Autumn semester
- 58123 Society, Economy and Globalisation 8cp
- 58219 Social Change Communication 8cp
Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Spring semester
- 58218 Ideology, Beliefs and Visions 8cp
Select 16 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 4
Autumn semester
- 58301 Communication Practice Project 8cp
Select one of the following:
- 58314 Social Inquiry Placement 8cp
- 50260 Parliamentary Placement 8cp
Select 8 credit points from the following options:
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.

Other information
Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10251v1 Bachelor of Arts in Communication (Information and Media)

Award(s): Bachelor of Arts in Communication (BA)
UAC code: 600008
CRICOS code: 060173D
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Overview
This course has been specifically designed to respond to the new demands created by the increasing convergence of information, media and communication, design, and the creative arts. The course uses a ‘learning through making’ approach which is creative, collaborative and critical. The broad range of skills and knowledge needed for creative information practice is reflected in the portfolio students develop throughout the course.

Students create a portfolio of products including blogs, podcasts, websites, databases as well as audience and user analyses. The degree also provides students with an opportunity to develop a secondary specialisation to complement core studies and to undertake a professional placement.

Course aims
This interdisciplinary course prepares students for work in a variety of creative information design and management roles. Students develop an understanding of the interrelationships between people, information and communication technologies, as well as practical skills in areas such as web design and architecture, media research and writing information and media content for diverse audiences.

Career options
Career options include work as collection developers, database designers, information architects, information managers, librarians, media researchers, new media producers, project managers, and web content developers or content managers.
Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points consisting of a 48-credit-point core program, a 48-credit-point major, a 24-credit-point sub-major and 24 credit points of electives.

Industrial training/professional practice
Students contribute to the development of their professional portfolio throughout the course, have opportunities for industry placements and undertake a final capstone project for a client.

Course completion requirements

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<td><strong>Total</strong></td>
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Course program
Typical course programs are shown below for students commencing in either Autumn or Spring semester.

Students must choose a sub-major from CBK90701 in Year 1, Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Autumn commencing

Year 1

**Autumn semester**

Select one of the following: 8cp

- 58103 Understanding Communication 8cp
- 58101 Ideas in History 8cp
- 58125 Creative Information Design 8cp
- 58102 Language and Discourse 8cp

Year 2

**Autumn semester**

Select 8 credit points from the following options: 8cp

- CBK90701 Sub-major choice
- CBK90702 Electives

**Spring semester**

Select 8 credit points from the following options: 8cp

- CBK90701 Sub-major choice
- CBK90702 Electives

Year 3

**Autumn semester**

Select 16 credit points from the following options: 16cp

- CBK90701 Sub-major choice
- CBK90702 Electives

**Spring semester**

Select 8 credit points from the following options: 8cp

- CBK90701 Sub-major choice
- CBK90702 Electives

Spring commencing

Year 1

**Autumn semester**

Select 16 credit points from the following options: 16cp

- CBK90701 Sub-major choice
- CBK90702 Electives

**Spring semester**

Select 8 credit points from the following options: 8cp

- CBK90701 Sub-major choice
- CBK90702 Electives

Year 2

**Autumn semester**

Select 16 credit points from the following options: 16cp

- CBK90701 Sub-major choice
- CBK90702 Electives

**Spring semester**

Select 8 credit points from the following options: 8cp

- CBK90701 Sub-major choice
- CBK90702 Electives

Year 3
Eligibility for admission does not guarantee offer of a place. To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

The Bachelor of Arts in Communication (C09009) (see page 110) is available with an additional year of full-time study for eligible students.

Professional recognition
This course has professional recognition from the Australian Library and Information Association. Students wishing to be eligible for professional membership of ALIA, must successfully complete 50190 Professional Information Project as an elective.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10252v1 Bachelor of Arts in Communication (Journalism) and in International Studies

Award(s): Bachelor of Arts in Communication (BA)
Bachelor of Arts in International Studies (BA)
UAC code: 609300
CRICOS code: 043279B
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
This degree combines a professional degree with immersion in another language and culture, enhancing professional training and career options. The combined course seeks to augment the value of journalism by broadening awareness and understanding of another language and culture.

As media becomes increasingly global, it is more important than ever for journalists to have an understanding of international affairs and cultural perspectives other than their own. There are many opportunities for journalists to work in different countries during their career and those who are fluent in more than one language are able to take advantage of these opportunities. Career options are also enhanced by international experience, making students more marketable to prospective employers.

Career options
Career options include editors and sub-editors, feature and freelance writers, investigative journalists, media researchers, producers, publishers, reporters, and strategists in the print, broadcast and online media.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students’ prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:

- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements

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<th>Code</th>
<th>Course Title</th>
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<td>Core subjects</td>
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<td>MAJ10020</td>
<td>Journalism</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90071</td>
<td>Sub-major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90072</td>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total 240cp</td>
<td></td>
</tr>
</tbody>
</table>

Course program
The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90071 in Year 1 Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58103</td>
<td>Understanding Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>58104</td>
<td>Ideas in History</td>
<td>8cp</td>
</tr>
<tr>
<td>58110</td>
<td>Introduction to Journalism</td>
<td>8cp</td>
</tr>
<tr>
<td>58102</td>
<td>Language and Discourse</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58103</td>
<td>Ideas in History</td>
<td>8cp</td>
</tr>
<tr>
<td>58101</td>
<td>Understanding Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>58111</td>
<td>Reporting with Sound and Image</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90071</td>
<td>Sub-major choice</td>
<td>24cp</td>
</tr>
</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Students develop their own creative and conceptual work through the production of a range of exercises and projects in film and video, sound and radio and new media (multimedia and online applications). The subjects in the course also place a strong emphasis on the professional context and work practices associated with these areas and the ability to apply them in the national and international production context. Career options are also enhanced by international experience, making students more marketable to prospective employers.

Career options
Career options include arts and cultural administrators, cinematographers, directors, documentary makers, editors, film producers, freelance media artists and producers, multimedia designers, new media producers, production managers, program commissioning editors, radio producers, scriptwriters and sound designers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students’ prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
• INSEARCH UTS: Diploma of Communication
• Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
• Temasek Polytechnic: Diploma in Communication and Media Management
• Ngee Ann Polytechnic, Singapore: Diploma in Mass Communication

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

C10253v1 Bachelor of Arts in Communication (Media Arts and Production) and in International Studies

Award(s): Bachelor of Arts in Communication (BA)
Bachelor of Arts in International Studies (BA)
UAC code: 609310
CRICOS code: 043280J
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The course combines a professional degree with immersion in another language and culture, enhancing professional training and career options. This combined degree seeks to augment the value of media arts and production by broadening students’ awareness and understanding of another language and culture. The emphasis lies in recognising that the media and cultural industries are undergoing enormous changes in identities and audiences.
Course completion requirements

- CBK90005 Country major choice 96cp
- STN90550 Core subjects 48cp
- MAJ10021 Media Arts and Production 48cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Total 240cp

Course program

The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90049 in Year 1 Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

Autumn semester
- Select one of the following: 8cp
  - 58101 Understanding Communication 8cp
  - 58113 Exploring Media Arts 8cp
  - 58102 Language and Discourse 8cp

Spring semester
- Select one of the following: 8cp
  - 58103 Ideas in History 8cp
  - 58101 Understanding Communication 8cp
  - 58115 Composing the Real 8cp

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp

Year 2

Autumn semester
- 97601 German Language and Culture 1 8cp
- 58114 Fictions: Storytelling, Narrative and Drama 8cp
- 976001 Foundations in International Studies 8cp

Spring semester
- 58202 Regulating Communication: Law, Ethics, Politics 8cp
- 58212 Aesthetics 8cp
- 97602 German Language and Culture 2 8cp

Year 3

Autumn semester
- 58201 Communication and Cultural Industries and Practices 8cp
- 58213 Research and Practice 8cp
- 97603 German Language and Culture 3 8cp

Spring semester
- 97642 Contemporary Germany 8cp
- 97604 German Language and Culture 4 8cp

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 4

Autumn semester
- 977420 In-country Study 1: Germany 24cp

Spring semester
- 977420 In-country Study 2: Germany 24cp

Year 5

Autumn semester
- 58301 Communication Practice Project 8cp
- Select 16 credit points from the following options: 16cp
  - CBK90701 Sub-major choice 24cp
  - CBK90702 Electives 24cp

Spring semester
- 58311 Media Arts Project 8cp
- Select 16 credit points from the following options: 16cp
  - CBK90701 Sub-major choice 24cp
  - CBK90702 Electives 24cp

Other information

Further information is available from the UTS Student Centre on:
phone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10254v1 Bachelor of Arts in Communication (Public Communication) and in International Studies

Award(s): Bachelor of Arts in Communication (BA)
Bachelor of Arts in International Studies (BA)
UAC code: 693120
CRICOS code: 026205F
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview

The course combines a professional degree with immersion in another language and culture, enhancing professional training and career options. This combined degree seeks to augment the value of public communication by broadening awareness and understanding of another language and culture.

International perspectives on public relations and advertising enable UTS graduates to transcend national barriers and be competitive in a global environment. Career options are enhanced by international experience, making students more adept at international and cross-cultural professional practice.

Career options

Career options include advertising copywriters, advertising account executives, communication strategists, community relations managers, marketing communication specialists, media liaison officers, media researchers, political media advisers, public relations consultants, publicity officers and special events coordinators.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students' prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or PTE: 65-72; or CAE: 67-73 overall with a writing score of 7.0; or DEEP: B+; or IELTS: 5.5; or TOEFL: internet based: 83-88; or PTE: 55-62; or CAE: 60-66 overall with a writing score of 6.5; or DEEP: B+; or IELTS: 5.0; or TOEFL: internet based: 66-75; or PTE: 50-54; or CAE: 55-59 overall with a writing score of 5.0; or DEEP: B+; or IELTS: 4.0; or TOEFL: internet based: 57-64; or PTE: 45-50; or CAE: 45-49 overall with a writing score of 4.0; or DEEP: B+.

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).
External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>STM90550</td>
<td>Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ10024</td>
<td>Public Communication</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90701</td>
<td>Sub-major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90702</td>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90701 in Year 1 Spring semester. Students have the option of completing either a Public Relations stream (STM90716) or an Advertising stream (STM90715) in Year 1 of this course.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Advertising stream

Year 1

Autumn semester
- Select one of the following: 8cp
  - MAJ10101 Understanding Communication 8cp
  - MAJ10103 Ideas in History 8cp
  - MAJ10201 The Ecology of Public Communication 8cp
  - MAJ10202 Language and Discourse 8cp

Spring semester
- Select one of the following: 8cp
  - MAJ10101 Understanding Communication 8cp
  - MAJ10103 Ideas in History 8cp
  - MAJ10201 The Ecology of Public Communication 8cp
  - MAJ10202 Language and Discourse 8cp

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp

Year 2

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>97601</td>
<td>German Language and Culture 1</td>
<td>8cp</td>
</tr>
<tr>
<td>58129</td>
<td>Advertising Campaign Practice</td>
<td>8cp</td>
</tr>
<tr>
<td>976001</td>
<td>Foundations in International Studies</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58202</td>
<td>Regulating Communication: Law, Ethics, Politics</td>
<td>8cp</td>
</tr>
<tr>
<td>58229</td>
<td>Brand Advertising Strategies</td>
<td>8cp</td>
</tr>
<tr>
<td>97602</td>
<td>German Language and Culture 2</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58201</td>
<td>Communication and Cultural Industries and Practices</td>
<td>8cp</td>
</tr>
<tr>
<td>58312</td>
<td>Integrated Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>97603</td>
<td>German Language and Culture 3</td>
<td>8cp</td>
</tr>
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</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
</tr>
<tr>
<td>97604</td>
<td>German Language and Culture 4</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Year 4

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>977420</td>
<td>In-country Study 1: Germany</td>
<td>24cp</td>
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</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>978420</td>
<td>In-country Study 2: Germany</td>
<td>24cp</td>
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</table>

Year 5

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58301</td>
<td>Communication Practice Project</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 16 credit points from the following options: 16cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58230</td>
<td>Professional Advertising Practice</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 16 credit points from the following options: 16cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Public Relations stream

Year 1

Autumn semester

- Select one of the following: 8cp
  - 58101 Understanding Communication 8cp
  - 58103 Ideas in History 8cp
  - 58116 The Ecology of Public Communication 8cp
  - 58102 Language and Discourse 8cp

Spring semester

- Select one of the following: 8cp
  - 58101 Understanding Communication 8cp
  - 58103 Ideas in History 8cp
  - 58117 Principles of Public Relations 8cp

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp

Year 2

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>97601</td>
<td>German Language and Culture 1</td>
<td>8cp</td>
</tr>
<tr>
<td>58126</td>
<td>Strategic Public Relations</td>
<td>8cp</td>
</tr>
<tr>
<td>976001</td>
<td>Foundations in International Studies</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58204</td>
<td>Regulating Communication: Law, Ethics, Politics</td>
<td>8cp</td>
</tr>
<tr>
<td>58214</td>
<td>Media Writing and Production</td>
<td>8cp</td>
</tr>
<tr>
<td>97602</td>
<td>German Language and Culture 2</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58201</td>
<td>Communication and Cultural Industries and Practices</td>
<td>8cp</td>
</tr>
<tr>
<td>58312</td>
<td>Integrated Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>97603</td>
<td>German Language and Culture 3</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
</tr>
<tr>
<td>97604</td>
<td>German Language and Culture 4</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points from the following options: 8cp
- CBK90701 Sub-major choice 24cp
- CBK90702 Electives 24cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Contemporary cultures as they go about their work. They are equipped for this task with an understanding of their own and other positions to play a significant role in the 21st century. Its writers are with, and responsiveness to, the writer's society. Australia is uniquely designed to broaden students' awareness of writing and the work of professional training and career options. This combined degree is degree with immersion in another language and culture, enhancing of the societies they live in. This course combines a professional stream and four subjects as the two core subjects in MAJ10024 Public Communication and Public Relations Institute of Australia must successfully complete the four subjects in STM90715 Advertising stream and in addition 58117 Principles of Public Relations.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au www.internationalstudies.uts.edu.au

C10255v1 Bachelor of Arts in Communication (Writing and Cultural Studies) and in International Studies
Award(s): Bachelor of Arts in Communication (BA)
Bachelor of Arts in International Studies (BA)
UAC code: 609330
CRICOS code: 026206E
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
Writers tell their own stories and, in doing so, they tell the stories of the societies they live in. This course combines a professional degree with immersion in another language and culture, enhancing professional training and career options. This combined degree is designed to broaden students' awareness of writing and the work of the writer in relation to different languages and cultures.

Writing at UTS is studied as a craft undertaken in close engagement with, and responsiveness to, the writer's society. Australia is uniquely positioned to play a significant role in the 21st century. Its writers are a vital part of understanding and defining this role and they are better equipped for this task with an understanding of their own and other contemporary cultures as they go about their work.

Career options
Career options include arts and cultural administrators, book marketing coordinators, communication coordinators, copywriters, cultural researchers, dramatists, editors, feature writers, freelance writers, new media and web producers, novelists, publishers, literary agents, media researchers, poets, publications officers and scriptwriters.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students' prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:

- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>EFTSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90005 Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>STM90550 Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ10022 Writing and Cultural Studies</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90701 Sub-major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90702 Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>240cp</td>
</tr>
</tbody>
</table>
Course program
The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90701 in Year 1 Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

Autumn semester
Select one of the following: 8cp
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58119 Text and Context 8cp
58102 Language and Discourse 8cp

Spring semester
Select one of the following: 8cp
58103 Ideas in History 8cp
58101 Understanding Communication 8cp
58121 Fictional Forms 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp

Year 2

Autumn semester
97601 German Language and Culture 1 8cp
58120 Creativity and Culture 8cp
97600 Foundations in International Studies 8cp

Spring semester
58202 Regulating Communication: Law, Ethics, Politics 8cp
58216 Imagining the Real 8cp
97602 German Language and Culture 2 8cp

Year 3

Autumn semester
58201 Communication and Cultural Industries and Practices 8cp
58217 Experiments in Culture 8cp
97603 German Language and Culture 3 8cp

Spring semester
976421 Contemporary Germany 8cp
97604 German Language and Culture 4 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Year 4

Autumn semester
977420 In-country Study 1: Germany 24cp

Spring semester
978420 In-country Study 2: Germany 24cp

Year 5

Autumn semester
58301 Communication Practice Project 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Spring semester
58313 Writing Laboratory 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10256v1 Bachelor of Arts in Communication (Social Inquiry) and in International Studies

Award(s): Bachelor of Arts in Communication (BA)
Bachelor of Arts in International Studies (BA)
UAC code: 609345
CRICOS code: 043281G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The course combines a professional degree with immersion in another language and culture, enhancing professional training and career options. This combined degree seeks to augment the value of social inquiry by broadening awareness and understanding of another language and culture.

The course offers students a powerful mix of skills and knowledge which may be applied in many professional areas. It prepares students for incorporating and teaching diversity, ways of understanding and working within other cultures, the ability to understand different social and political frameworks, skills in exploring historical materials as well as researching current social problems and devising policy possibilities, and developing communication strategies using new media. Career options are also enhanced by international experience, making students more marketable to prospective employers.

Career options
Career options include community development workers, community project managers, local and community historians, international aid workers, media researchers, policy analysts, policy officers, political advisers, politicians, social researchers, social welfare officers, trade union officials, and change agents in a range of social, cultural, historical and political arenas.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students’ prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0; internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
• INSEARCH UTS: Diploma of Communication
• Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
• Temasek Polytechnic: Diploma in Communication and Media Management
• Ngee Ann Polytechnic, Singapore: Diploma in Mass Communication

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
CBK90005 Country major choice 96cp
STN90350 Core subjects 48cp
MAJ09395 Social Inquiry 48cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Total 240cp

Course program
The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90701 in Year 1 Spring semester.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1
Autumn semester
Select one of the following: 8cp
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58122 Introduction to Social Inquiry 8cp
58102 Language and Discourse 8cp
Spring semester
Select one of the following: 8cp
58103 Ideas in History 8cp
58101 Understanding Communication 8cp
58124 Local Transformations 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp

Year 2
Autumn semester
97601 German Language and Culture 1 8cp
58123 Society, Economy and Globalisation 8cp
976001 Foundations in International Studies 8cp
Spring semester
58202 Regulating Communication: Law, Ethics, Politics 8cp
58218 Ideology, Beliefs and Visions 8cp
97602 German Language and Culture 2 8cp

Year 3
Autumn semester
58201 Communication and Cultural Industries and Practices 8cp
58219 Social Change Communication 8cp
97603 German Language and Culture 3 8cp
Spring semester
97642 Contemporary Germany 8cp
97634 German Language and Culture 4 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Year 4
Autumn semester
977420 In-country Study 1: Germany 24cp
Spring semester
978420 In-country Study 2: Germany 24cp

Year 5
Autumn semester
58817 Transnational Media 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Spring semester
Select one of the following: 8cp
58814 Social Inquiry Placement 8cp
50260 Parliamentary Placement 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10257V1 Bachelor of Arts in Communication (Information and Media) and in International Studies
Award(s): Bachelor of Arts in Communication (Information and Media) and in International Studies
Bachelor of Arts in International Studies (BA)
UAC code: 699340
CRICOS code: 060174C
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The combined degree enhances the interdisciplinary nature of the professionally oriented information and media degree through immersion in another language and culture.
Apart from the wider educational goals, the course helps students become more effective as information professionals, whether in Australia or overseas. Career options are enhanced by international experience.

Career options
Career options include collection developers, database designers, information architects, information managers, librarians, media researchers, new media producers, project managers, and web content developers or content managers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
There are no prior language requirements for the international studies program. Entry level to the various language and culture programs depends upon students’ prior knowledge of the relevant language. Students are admitted to the international studies program with no guarantee of entry to a specific country major, although every effort is made to meet their preferences.

Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

External articulation
The Faculty of Arts and Social Sciences has established credit recognition packages with the following institutions for the courses listed:
- INSEARCH UTS: Diploma of Communication
- Nanyang Polytechnic, Singapore: Diploma in Media Studies and Management
- Temasek Polytechnic: Diploma in Communication and Media Management

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the communication component and 96 credit points in the international studies component. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements
CBK90005 Country major choice 96cp
STM90550 Core subjects 48cp
MAJ10023 Information and Media 48cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp
Total 240cp

Course program
The example program below is for a student commencing in Autumn semester 2012 with the Germany major as the chosen international studies major. Other countries may be chosen from the list of majors in CBK90005, the program has the same structure but with subjects specific to the chosen country major. Students must choose a sub-major from CBK90701 in Year 1 Spring semester.

Year 1
Autumn semester
Select one of the following:
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58125 Creative Information Design 8cp
58102 Language and Discourse 8cp

Spring semester
Select one of the following:
58103 Ideas in History 8cp
58101 Understanding Communication 8cp
58126 Information Discovery and Analysis 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp

Year 2
Autumn semester
97601 German Language and Culture 1 8cp
58127 Information Cultures 8cp
976001 Foundations in International Studies 8cp

Spring semester
58202 Regulating Communication: Law, Ethics, Politics 8cp
58220 Designing for the Web 8cp
97602 German Language and Culture 2 8cp

Year 3
Autumn semester
58201 Communication and Cultural Industries and Practices 8cp
58221 Social Informatics 8cp
97603 German Language and Culture 3 8cp

Spring semester
976421 Contemporary Germany 8cp
97604 German Language and Culture 4 8cp
Select 8 credit points from the following options: 8cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Year 4
Autumn semester
977420 In-country Study 1: Germany 24cp

Spring semester
978420 In-country Study 2: Germany 24cp

Year 5
Autumn semester
58315 Storing Objects and Artifacts 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Spring semester
58301 Communication Practice Project 8cp
Select 16 credit points from the following options: 16cp
CBK90701 Sub-major choice 24cp
CBK90702 Electives 24cp

Professional recognition
This course has professional recognition from the Australian Library and Information Association. Students wishing to be eligible for professional membership of ALIA, must successfully complete 50190 Professional Information Project as an elective.

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au
Overview
This course is offered jointly by UTS: Law and UTS: Communication. It aims to produce journalists with the knowledge and analytical skills of lawyers, and lawyers with the communication skills of professional journalists. It develops a broad range of professional skills and knowledge for either legal or media practice.

Career options
Career options include journalist with professional skills in one or more of the print, radio, television or internet media; lawyer in the media and communication industry or legal policy adviser in a government department such as the Australian Broadcasting Authority.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Proficiency in English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week. Timetable constraints may require attendance at daytime and evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows.

The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options

The communication component of 96 credit points is made up of:
- 48 credit points of compulsory subjects, and
- 48 credit points of subjects from the Journalism major.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.

Course program
The standard program shown is for a full-time student with law options.

Eligibility for admission does not guarantee offer of a place.

Year 1
Autumn semester
- Select one of the following: 8cp
  - 58101 Understanding Communication
  - 58103 Ideas in History
- 58102 Language and Discourse 8cp
- 58110 Introduction to Journalism 8cp

Spring semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 58111 Reporting with Sound and Image 8cp

Year 2
Autumn semester
- 70211 Contracts 8cp
- 58112 Reporting and Editing for Print and Online Journalism 8cp
- Select one of the following: 8cp
  - 58103 Ideas in History
- 58101 Understanding Communication 8cp

Spring semester
- 70311 Torts 8cp
- 70218 Criminal Law 8cp
- 58210 Storytelling, Narrative and Features 8cp

Year 3
Autumn semester
- 70616 Australian Constitutional Law 8cp
- 70317 Commercial Law 6cp
- 58310 Media Hub 8cp

Spring semester
- 70327 Commercial Law 6cp
- Select 12 credit points of options 12cp

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
- STM90691 Law stream 144cp
- STM90550 Core subjects 48cp
- MAJ10020 Journalism 48cp
- Total 240cp

Course diagram

<table>
<thead>
<tr>
<th>Bachelor of Arts in Communication</th>
<th>Bachelor of Laws</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 core subjects</td>
<td>6 core subjects</td>
</tr>
<tr>
<td>Total 102 credit points</td>
<td>Total 48 credit points</td>
</tr>
<tr>
<td>Law options</td>
<td>Law stream</td>
</tr>
<tr>
<td>7 x 6-credit-point subjects</td>
<td>144cp</td>
</tr>
<tr>
<td>Total 42 credit points</td>
<td>144cp</td>
</tr>
</tbody>
</table>

Eligibility for admission does not guarantee offer of a place.

Career options
Career options include journalist with professional skills in one or more of the print, radio, television or internet media; lawyer in the media and communication industry or legal policy adviser in a government department such as the Australian Broadcasting Authority.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Proficiency in English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week. Timetable constraints may require attendance at daytime and evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows.

The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options

The communication component of 96 credit points is made up of:
- 48 credit points of compulsory subjects, and
- 48 credit points of subjects from the Journalism major.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.

For a current listing of subjects in each course, refer to the study package directory.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Career options
Career options include lawyer in the media and communication industry; a wide range of roles within the media and cultural sectors in film, media or sound production; or emerging areas including the internet.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week, and may be required to attend evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows.

The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options.

The communication component of 96 credit points is made up of:
- 48 credit points of compulsory subjects, and
- 48 credit points of subjects from the Media Arts and Production major.

Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.

For a current listing of subjects in each course, refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course diagram

<table>
<thead>
<tr>
<th>Bachelor of Laws</th>
<th>Bachelor of Arts in Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 core subjects</td>
<td>6 core subjects</td>
</tr>
<tr>
<td>Total 120 credit points</td>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Law options</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x 6-credit-point subjects</td>
</tr>
<tr>
<td>Total 42 credit points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Media Arts and Production major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

C10259v2 Bachelor of Arts in Communication (Media Arts and Production) Bachelor of Laws

Award(s): Bachelor of Arts in Communication (BA) Bachelor of Laws (LLB)
UAC code: 559902
CRICOS code: 030573C
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
This course is offered jointly by UTS: Law and UTS: Communication. It aims to develop a broad range of professional skills and knowledge for either legal or media practice and provides advanced hands-on conceptual and technical skills in film, video, sound and new media. It allows students to graduate with the separate degrees of Bachelor of Arts in Communication (Media Arts and Production) and Bachelor of Laws.

Students have the unique opportunity to combine studies in film, video, sound and new media with studies in law, gaining a first-hand perspective of the production process, the creation of intellectual property in media production and the functions of various crew roles including directors and producers through producing and exhibiting their own short film, video, sound production or new media programs.
Course completion requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STN90691 Law stream</td>
<td>144cp</td>
</tr>
<tr>
<td>STN90550 Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>MAJ10021 Media Arts and Production</td>
<td>48cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>240cp</strong></td>
</tr>
</tbody>
</table>

Course program

The standard program shown is for a full-time student with law options.

All options shown are law options and are to be drawn from those on offer in CKB90383.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

**Autumn semester**

Select one of the following: 8cp
- 58101 Understanding Communication
- 58102 Language and Discourse
- 58113 Exploring Media Arts

Spring semester

- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 58115 Composing the Real 8cp

Year 2

**Autumn semester**

- 70211 Contracts 8cp
- 58114 Fictions: Storytelling, Narrative and Drama 8cp

Select one of the following: 8cp
- 58103 Ideas in History
- 58104 Understanding Communication

Spring semester

- 70218 Criminal Law 8cp
- 58212 Aesthetics 8cp
- 70311 Torts 8cp

Year 3

**Autumn semester**

- 70616 Australian Constitutional Law 8cp
- 70317 Real Property 8cp
- 58213 Research and Practice 8cp

Spring semester

- 58311 Media Arts Project 8cp
- 70327 Commercial Law 6cp

Select 12 credit points of options 12cp

Year 4

**Autumn semester**

- 70417 Corporate Law 8cp
- 70517 Equity and Trusts 8cp
- 58201 Communication and Cultural Industries and Practices 8cp

Spring semester

- 70617 Administrative Law 8cp
- 58202 Regulating Communication: Law, Ethics, Politics 8cp
- 70717 Evidence and Criminal Procedure 6cp

Year 5

**Autumn semester**

- 58301 Communication Practice Project 8cp
- 75421 Civil Litigation 6cp
- 75420 Ethics and Professional Conduct 6cp

Select 6 credit points of options 6cp

**Spring semester**

Select 24 credit points of options 24cp

Levels of award

The Bachelor of Arts may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Arts with honours can be found under undergraduate course information (see page 96).

Honours

The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is offered on a one-year, full-time basis.

Professional recognition

This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information

Further information is available from:
- UTS Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C10260v2 Bachelor of Arts in Communication (Social Inquiry)

Bachelor of Laws

Award(s): Bachelor of Arts in Communication (BA)

Bachelor of Laws (LLB)

UAC code: 609003

CRICOS code: 03331I

Commonwealth-supported place?: Yes

Load credit points: 240

Course EFTSL: 5

Location: City campus

Overview

This course is offered jointly by UTS: Law and UTS: Communication. It provides students with a range of professional and analytical skills grounded in sociology, social policy, politics, public history and international studies, for either legal or social science practice. It is designed for students who want to use their professional legal qualification together with social research, policy development and political advocacy.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the requirements for admission as a lawyer together with specialisation in social, cultural and communication theory and practice. Studies in social inquiry increase students’ employment options in the diverse fields of social science, media and communication, as well as extending their knowledge of the broader context in which the legal system operates.

Course aims

The course aims to promote understanding of how communities and political systems work, along with positive and effective intervention skills.

Career options

Career options include lawyer in business or media organisations, community or public sector, as an advocate, policy maker, political activist, political adviser or social or media researcher.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73; or TOEFL: internet based: 84 overall with a writing score of 7.0; or IELTS: 6.5 overall with a writing score of 7.0.

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Assumed knowledge
HSC English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week, and may be required to attend evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows.
The law component of 144 credit points is made up of:
• 102 credit points of compulsory core law subjects, and
• 42 credit points of law options.
The communication component of 96 credit points is made up of:
• 48 credit points of compulsory subjects, and
• 48 credit points of subjects from the Social Inquiry major.
Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.
For a current listing of subjects in each course, refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.
Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
STM00691 Law stream 144cp
STM00530 Core subjects 48cp
MAJ09395 Social Inquiry 48cp
Total 240cp

Course diagram

Bachelor of Laws
14 core subjects
Total 102 credit points

Bachelor of Arts in Communication
6 core subjects
Total 48 credit points

Law options
7 x 6-credit-point subjects
Total 42 credit points

Social Inquiry major
Total 48 credit points

Course program
The standard program shown is for a full-time student with law options.
All options shown are law options and are to be drawn from those on offer in CBK0383.
Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

Autumn semester
Select one of the following:
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58102 Language and Discourse 8cp
58122 Introduction to Social Inquiry 8cp

Spring semester
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp
58124 Local Transformations 8cp

Year 2

Autumn semester
70211 Contracts 8cp
58123 Society, Economy and Globalisation 8cp
Select one of the following:
58103 Ideas in History 8cp
58101 Understanding Communication 8cp

Spring semester
58218 Ideology, Beliefs and Visions 8cp
70218 Criminal Law 8cp
70311 Torts 8cp

Year 3

Autumn semester
70616 Australian Constitutional Law 8cp
70317 Real Property 8cp
58219 Social Change Communication 8cp

Spring semester
Select one of the following:
58314 Social Inquiry Placement 8cp
50260 Parliamentary Placement 8cp
70327 Commercial Law 6cp
Select 12 credit points of options 12cp

Year 4

Autumn semester
70417 Corporate Law 8cp
70517 Equity and Trusts 8cp
58201 Communication and Cultural Industries and Practices 8cp

Spring semester
70717 Evidence and Criminal Procedure 6cp
58202 Regulating Communication: Law, Ethics, Politics 8cp
70617 Administrative Law 8cp

Year 5

Autumn semester
58301 Communication Practice Project 8cp
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
Select 6 credit points of options 6cp

Spring semester
Select 24 credit points of options 24cp

Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is offered on a one-year, full-time basis.

Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Overview
This course is offered jointly by UTS: Law and UTS: Communication. It provides students with interdisciplinary knowledge of public communication processes and industries, and their social, economic and political contexts with specialised expertise in public relations and/or advertising, together with studies in law. It allows students to graduate with the separate degrees of Bachelor of Arts in Communication (Public Communication) and Bachelor of Laws. The course provides full-time study for students wishing to obtain a professional legal qualification that satisfies the requirements for admission as a lawyer in NSW together with practical skills and knowledge for contemporary public communication practice. Assessments and a professional industry placement ensure industry relevance and that students are work-ready.

Career options
Career options include advertising account manager, corporate communications adviser, lawyer in the public communication industry, media liaison officer, political media adviser, public or community relations manager or special events coordinator.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week, and may be required to attend evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows.
The law component of 144 credit points is made up of:
- 102 credit points of compulsory core law subjects, and
- 42 credit points of law options,
The communication component of 96 credit points is made up of:
- 48 credit points of compulsory subjects, and
- 48 credit points of subjects from the Public Communication major.
Refer to the course entry in the LITS: Handbook 2007 for the pre-2008 course structure. For a current listing of subjects in each course, refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.
Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90691 Law stream</td>
<td>144cp</td>
</tr>
<tr>
<td>STM90550 Core subjects</td>
<td>48cp</td>
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<td>MAJ10024 Public Communication</td>
<td>48cp</td>
</tr>
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Course program
Students have the option of completing either a Public Relations stream (STM90716) or an Advertising stream (STM90715) in Year 1 of this course. The standard program shown is for a full-time student with law options.
All options shown are law options and are to be drawn from those on offer in CBK90383.
Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Public Relations stream

Year 1

Autumn semester
Select one of the following: 8cp
- 58101 Understanding Communication
- 58103 Ideas in History
- 58102 Language and Discourse
- 58116 The Ecology of Public Communication

Spring semester
- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 58117 Principles of Public Relations 8cp

Year 2

Autumn semester
- 70211 Contracts 8cp
- 58128 Strategic Public Relations 8cp
Select one of the following: 8cp
- 58103 Ideas in History
- 58101 Understanding Communication

Spring semester
- 70218 Criminal Law 8cp
- 58214 Media Writing and Production 8cp
- 70311 Torts 8cp

Year 3

Autumn semester
- 58312 Integrated Communication 8cp
- 70317 Real Property 8cp
- 70616 Australian Constitutional Law 8cp

Spring semester
- 70327 Commercial Law 6cp
- 58231 Organisational Communication 8cp
Select 12 credit points of options 12cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Year 4**

**Autumn semester**
- 70417: Corporate Law 8cp
- 70517: Equity and Trusts 8cp
- 58201: Communication and Cultural Industries and Practices 8cp

**Spring semester**
- 70617: Administrative Law 8cp
- 58202: Regulating Communication: Law, Ethics, Politics 8cp
- 70717: Evidence and Criminal Procedure 6cp

**Year 5**

**Autumn semester**
- 58301: Communication Practice Project 8cp
- 75421: Civil Litigation 6cp
- 75420: Ethics and Professional Conduct 6cp

Select 6 credit points of options  6cp

**Spring semester**
Select 24 credit points of options  24cp

**Advertising stream**

**Year 1**

**Autumn semester**
- Select one of the following: 8cp
  - 58101: Understanding Communication 8cp
  - 58103: Ideas in History 8cp
  - 58102: Language and Discourse 8cp
  - 58116: The Ecology of Public Communication 8cp

**Spring semester**
- 70115: Perspectives on Law 8cp
- 70120: Legal Method and Research 6cp
- 58118: Principles of Advertising 8cp

**Year 2**

**Autumn semester**
- 58129: Advertising Campaign Practice 8cp
- 70211: Contracts 8cp

Select one of the following: 8cp
- 58103: Ideas in History 8cp
- 58101: Understanding Communication 8cp

**Spring semester**
- 70218: Criminal Law 8cp
- 58229: Brand Advertising Strategies 8cp
- 70311: Torts 8cp

**Year 3**

**Autumn semester**
- 70317: Real Property 8cp
- 58312: Integrated Communication 8cp
- 70616: Australian Constitutional Law 8cp

**Spring semester**
- 58230: Professional Advertising Practice 8cp
- 70327: Commercial Law 6cp

Select 12 credit points of options  12cp

**Year 4**

**Autumn semester**
- 70417: Corporate Law 8cp
- 58201: Communication and Cultural Industries and Practices 8cp
- 70517: Equity and Trusts 8cp

**Spring semester**
- 70617: Administrative Law 8cp
- 70717: Evidence and Criminal Procedure 6cp
- 58202: Regulating Communication: Law, Ethics, Politics 8cp

**Year 5**

**Autumn semester**
- 58301: Communication Practice Project 8cp
- 75421: Civil Litigation 6cp
- 75420: Ethics and Professional Conduct 6cp

Select 6 credit points of options  6cp

**Spring semester**
Select 24 credit points of options  24cp

**Levels of award**
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

**Honours**
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is offered on a one-year, full-time basis.

**Professional recognition**
This course has professional recognition from the Public Relations Institute of Australia and the International Advertising Association.

- Students wishing to be eligible for professional membership of Public Relations Institute of Australia must successfully complete the two core subjects in MAJ10024 Public Communication and choose STM90716 Public Relations stream (four subjects) as their option.
- Students wishing to be eligible for professional membership of the International Advertising Association must successfully complete the four subjects in STM90715 Advertising stream and in addition 58117 Principles of Public Relations.

This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a Practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

**Other information**
Further information is available from:
- UTS Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C10262v2 Bachelor of Arts in Communication (Writing and Cultural Studies) Bachelor of Laws**

Award(s): Bachelor of Arts in Communication (BA) Bachelor of Laws (LLB)

- UAC code: 609006
- CRICOS code: 040703D
- Commonwealth-supported place?: Yes
- Load credit points: 240
- Course EFTSL: 5
- Location: City campus

**Overview**
This course is offered jointly by UTS: Law and UTS: Communication. The course aims to assist students to develop advanced writing skills for general and specific writing across a range of genres, while gaining a strong critical awareness of new media, contemporary culture and law.

The program provides full-time study for students wishing to obtain a professional legal qualification that satisfies the requirements for admission as a lawyer together with the study of writing as a professional practice.

UTS is renowned for the high calibre and award-winning success of its writing graduates, and maintains strong links to the literary community, publishing industry and cultural sector.

**Career options**
Career options include lawyer in the publishing industry, cultural administration or any position that calls for a broad knowledge of contemporary society and highly-developed writing skills, e.g. creative writing, editing, scriptwriting or web producer.
Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week, and may be required to attend evening classes for the law component.

Course structure
The course comprises 240 credit points. The study components for course completion are as follows:
The law component of 144 credit points is made up of:
• 102 credit points of compulsory core law subjects, and
• 42 credit points of law options.
The communication component of 96 credit points is made up of:
• 48 credit points of compulsory subjects, and
• 48 credit points of subjects from the Writing and Cultural Studies major.
Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure.
For a current listing of subjects in each course, refer to the study package directory.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.
Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements
STN90691 Law stream 144cp
STN90550 Core subjects 48cp
MAJ10022 Writing and Cultural Studies 48cp
Total 240cp

Course program
The standard program shown is for a full-time student with law options.
All options shown are law options and are to be drawn from those on offer in CBK03083.
Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

Autumn semester
Select one of the following: 8cp
58101 Understanding Communication 8cp
58103 Ideas in History 8cp
58102 Language and Discourse 8cp
58119 Text and Context 8cp

Spring semester
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp
58121 Fictional Forms 8cp

Year 2

Autumn semester
58120 Creativity and Culture 8cp
70211 Contracts 8cp
Select one of the following: 8cp
58103 Ideas in History 8cp
58101 Understanding Communication 8cp

Spring semester
58216 Imagining the Real 8cp
70218 Criminal Law 8cp
70311 Torts 8cp

Year 3

Autumn semester
70616 Australian Constitutional Law 8cp
70317 Real Property 8cp
58217 Experiments in Culture 8cp

Spring semester
70327 Commercial Law 6cp
58313 Writing Laboratory 8cp
Select 12 credit points of options 12cp

Year 4

Autumn semester
70417 Corporate Law 8cp
70517 Equity and Trusts 8cp
58201 Communication and Cultural Industries and Practices 8cp

Spring semester
70617 Administrative Law 8cp
58202 Regulating Communication: Law, Ethics, Politics 8cp
70717 Evidence and Criminal Procedure 6cp

Year 5

Autumn semester
58301 Communication Practice Project 8cp
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
Select 6 credit points of options 6cp

Spring semester
Select 24 credit points of options 24cp

Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is offered on a one-year, full-time basis.
C10263v2 Bachelor of Arts in Communication (Information and Media) Bachelor of Laws

Award(s): Bachelor of Arts in Communication (BA) Bachelor of Laws (LLB)
UAC code: 69004 CRICOS code: 060175B
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
This course is offered jointly by UTS: Law and UTS: Communication. It aims to develop knowledge and skills in law and the dynamic area of information and media. Through a ‘learning through making’ approach, this course is collaborative and critical in its study of creative information practices and how the law intersects.

The course develops a broad range of capabilities for professional practice in information and law. This is particularly relevant to the creation, organisation, retrieval, access and flow of information, particularly within electronic environments such as blogs and podcasts where students develop skills in web design and architecture, media research and writing information and media content for diverse audiences. Students learn to solve problems encountered in areas where the law intersects with information and communication technologies within society, and engage with pertinent ethical questions.

Career options
Career options include collection developer, content developer or content manager, database designer, information architect, information manager, online and social media consultant, legal adviser within a government department, lawyer in corporate and commercial sector, librarian, media researcher, project manager, web designer and in other diverse roles particularly in legal and business contexts.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 7.0; or TOEFL: internet based: 94-101 overall with a writing score of 7.0, or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
HSC English and computer literacy.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students are required to attend approximately 17 hours of seminars and lectures a week, and may be required to attend evening classes for the law component.

Course structure
The course comprises 240 credit points. It allows students to graduate with the separate degrees of Bachelor of Arts in Communication (Information and Media) and Bachelor of Laws. The study components for course completion are as follows.

- The law component of 144 credit points is made up of: 102 credit points of compulsory core law subjects, and
- 42 credit points of law options,
- The communication component of 96 credit points is made up of: 48 credit points of compulsory subjects, and
- 48 credit points of subjects from the Information and Media major.

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal academic qualification (e.g. Bachelor of Laws) and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Students enrolled in this course may complete their practical legal training by undertaking a postgraduate course in PLT, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Course completion requirements

<table>
<thead>
<tr>
<th>Course code</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90691 Law stream</td>
<td>144cp</td>
</tr>
<tr>
<td>STM90550 Core subjects</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Course diagram
![Course diagram](image)

- Bachelor of Arts in Communication: 6 core subjects, Total 48 credit points
- Law options: 7 x 6-credit-point subjects, Total 42 credit points
- Information and Media major: Total 48 credit points

Course program
The standard program shown is for a full-time student with law options.

All options shown are law options and are to be drawn from those on offer in CBK90383.

Students who commenced before 2012 should follow the course program in the archived handbook from their commencing year.

Year 1

**Autumn semester**

Select one of the following: 8cp
- 58101 Understanding Communication
- 58102 Language and Discourse
- 58125 Creative Information Design
- 58126 Information Discovery and Analysis

**Spring semester**

- 70115 Perspectives on Law 8cp
- 70120 Legal Method and Research 6cp
- 58125 Creative Information Design 8cp
Year 2

Autumn semester
- 58103 Ideas in History: 8cp
- 58101 Understanding Communication: 8cp
- 58127 Information Cultures: 8cp
- 70211 Contracts: 8cp

Spring semester
- 70218 Criminal Law: 8cp
- 58220 Designing for the Web: 8cp
- 70311 Torts: 8cp

Year 3

Autumn semester
- 70616 Australian Constitutional Law: 8cp
- 70317 Real Property: 8cp
- 58221 Social Informatics: 8cp

Spring semester
- 70327 Commercial Law: 6cp
- 58315 Storing Objects and Artifacts: 8cp
- Select 12 credit points of options: 12cp

Year 4

Autumn semester
- 70417 Corporate Law: 8cp
- 70517 Equity and Trusts: 8cp
- 58201 Communication and Cultural Industries and Practices: 8cp

Spring semester
- 70617 Administrative Law: 8cp
- 70717 Evidence and Criminal Procedure: 6cp

Year 5

Autumn semester
- 58301 Communication Practice Project: 8cp
- 75421 Civil Litigation: 6cp
- 75420 Ethics and Professional Conduct: 6cp
- Select 6 credit points of options: 6cp

Spring semester
- Select 24 credit points of options: 24cp

Levels of award
The Bachelor of Laws may be awarded with first or second class honours, which does not require an additional honours year. Honours candidates must complete the research thesis within the law option component. The rules concerning the Bachelor of Laws with honours can be found in undergraduate course information (see page 96).

Honours
The Bachelor of Arts (Honours) in Communication (C09009) (see page 110) is offered on a one-year, full-time basis.

Professional recognition
This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer, provided students complete a practical legal training program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information
Further information is available from:
- UTS Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C10264v1 Bachelor of Global Studies

Award(s): Bachelor of Global Studies (BGS)

UAC code: 600048
CRICOS code: 063940A
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: City campus

Note(s)
The Organisational Learning major will not be available for enrolment after 2012. Students currently enrolled in this major will not be affected.

Overview
This degree focuses on learning about the global political, economic and cultural processes, institutions and theories involved in a particular area of interest. Students are able to draw connections between these global phenomena and concrete local practices in work and life, seeing the different opportunities and constraints that exist for different groups of people. The course requires students to engage in complex problem solving regarding global phenomena from several different perspectives. Students who wish to study overseas during this course can undertake a UTS exchange or study abroad placement that counts towards their degree, after their first year.

This course prepares graduates for careers and contributions in a world of social and cultural diversity being transformed by globalisation, allowing students to draw connections between global phenomena and local practices in work and life.

Course aims
The course aims to produce graduates that are capable of applying knowledge about global phenomena, institutions and theories in a professional context; have well developed communication and interpersonal skills, attitudes and values; have relevant practical and professional skills; and possess innovative thinking and research skills.

Career options
Career options exist in globally oriented workplaces that may include international advisory and management positions in governmental organisations such as foreign affairs or the UN, non-government agencies, and companies that operate globally.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Any two units of English and computer literacy.

Course duration and attendance
The course is offered on a three-year, full-time or six-year, part-time basis.
Course structure
- Students must complete 144 credit points, comprising: six core subjects (48 credit points)
- a major in business studies, communication, information technology, legal studies or management studies (48 credit points), and
- one of the following: two sub-majors (48 credit points), or
- a sub-major (24 credit points) and exchange semester (24 credit points), or
- a sub-major (24 credit points) and three electives (24 credit points), or
- an exchange semester (24 credit points) and three electives (24 credit points).

Industrial training/professional practice
Students undergo a domestic work placement within a workplace that deals with global issues and practices.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90655 Core subjects</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90566 Major choice</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90567 Sub-majors + electives</td>
<td>48cp</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
</tbody>
</table>

Course program
Two examples are given below. The first is for the degree without an exchange semester. The second is for the degree with an exchange semester. The global studies core subjects are noted in each example and students may arrange major and sub-major subjects around these core subjects. Normally students do 24 credit points each semester but as this degree involves mixing 6-credit-point and 8-credit-point subjects it may be possible to vary the 24 credit point load as needed up to 28 credit points.

List of majors
- MAJ20401 Information Technology 48cp
- MAJ10019 Communication 48cp
- MAJ08965 Business Studies 48cp
- MAJ08966 Management Studies 48cp
- MAJ09399 Legal Studies 48cp

List of sub-majors and electives
- SMJ09035 Language other than English 24cp
- SMJ09036 Specialist Country Studies 24cp
- SMJ10040 Communication 24cp
- STM90498 Exchange electives 24cp
- CBK90634 Electives 24cp
- SMJ09048 Transnational Studies 24cp
- SMJ09049 Reading Australia 24cp
- SMJ09050 Environmental Studies 24cp
- SMJ09051 Bodies, Genders, Rights 24cp
- SMJ09052 Aboriginal Studies 24cp
- SMJ10032 Media Studies 24cp
- SMJ10033 Screen Studies 24cp
- STM90499 Exchange electives 24cp

Typical full-time program

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Points</th>
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</thead>
<tbody>
<tr>
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<td>99201 Global Histories</td>
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<tr>
<td>Spring</td>
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<tr>
<td>99202 Global Work</td>
<td>8cp</td>
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<td>99203 Global Knowledges</td>
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Year 2

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<th>Course</th>
<th>Points</th>
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<tbody>
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<td>Autumn</td>
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<tr>
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<tr>
<td>Spring</td>
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Year 3

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</table>

Typical full-time program with exchange semester

Year 1

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<tr>
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Year 2

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Year 3

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<th>Course</th>
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</table>

Other information
Further information is available from UTS: International Studies on:
- telephone +61 2 9514 1574
- fax +61 2 9514 1578
- email iisinfo@uts.edu.au
- www.internationalstudies.uts.edu.au
Overview
The Bachelor of Design in Photography and Situated Media explores both traditional photographic practice and more contemporary dimensions of media and imaging in urban environments, such as for exhibitions, installations and interactive responses. The degree has a strong emphasis on the relationship between digital photography and its purpose in an environmental situation, focusing on the city, urban issues and the relationship of media to its context - social, physical, geographical, political, documentary, artistic and design motivations.

This course explores the image in terms of its cultural history, its material uses, and its social implications. Combining contemporary photography practice with emerging digital technologies, the course equips its graduates with the visual literacy and technical skills they require to hold leading positions in image-based design professions.

The course balances technical skills and creativity with ethics and theory. Students study alongside other design disciplines in project-based studios. They encounter the city as a protagonist, employing images in a range of contexts, artistic, political and commercial, and exploring their role as part of the fabric of both collective memory and the built environment.

Course aims
Students graduate with skills of self-reflection in their practice, critical engagement with and responses to social and cultural issues, and a broad understanding of research practices. Students also gain an understanding of new technologies for image and multi-modal production, and new ways of approaching media in the environment.

Career options
Graduates of this course are able to engage in the broad scope of photographic and image-based careers. Career options include employment or self-employment in photography, art direction, fine art photography, exhibition media, installation, interactive media and advertising, photographic lighting, photographic technical and digital workflow practice, photojournalism, and commercial photography.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
International students (excluding those studying in an Australian high school) must submit an application to UTS International (in person, by mail or online) or through an accredited UTS representative. The application must include a portfolio of up to 10 examples of the student's work demonstrating awareness, imagination and skills relevant to design (preferably provided on CD or DVD).

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure
Students must complete 144 credit points made up of 96 credit points of core subjects (10 subjects), a 24-credit-point sub-major and 24 credit points of electives.

Course completion requirements
STM90707 Core subjects 54cp
CBK90814 Elective choice 24cp
CBK90806 Sub-major options 24cp
STM90580 Core subjects (PSM + SMD) 42cp
Total 144cp

Course program
A typical program is shown below.

One sub-major option

Year 1
Autumn semester
80027 Photographic History and Theory 6cp
80065 Design Studio: Photographic Intervention 12cp
80064 Interaction-based Designing 6cp

Spring semester
80037 Situated Media Culture and Context 6cp
80048 Photographic Manipulation 6cp
50846 Situated Media Installation Studio 12cp

Year 2
Autumn semester
80066 Design Studio: The Digital Image 12cp
Select 6 credit points of options 6cp
Select 6 credit points of electives 6cp

Spring semester
80046 Smart Object Studio 12cp
Select 6 credit points of options 6cp
Select 6 credit points of electives 6cp

Year 3
Autumn semester
50847 Visualisation and Sonification Studio 12cp
Select 6 credit points of options 6cp
Select 6 credit points of electives 6cp

Spring semester
80031 Graduation Exhibition 12cp
Select 6 credit points of options 6cp
Select 6 credit points of electives 6cp

Other information
Further information is available from: Building 6 Student Centre telephone 1300 ask UTS (1300 279 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au www.dab.uts.edu.au
C10266v1 Bachelor of Design in Photography and Situated Media
Bachelor of Arts in International Studies

Overview
The Bachelor of Design in Photography and Situated Media explores both traditional photographic practice and more contemporary uses for urban media, such as exhibitions and installations. The degree has a strong emphasis on the relationship between digital photography, its purpose in an environmental situation, focusing on city and urban issues of media placement in an internationalised professional context.

This course not only recognises the technological change brought about by digital advances in photography, but responds to actual and potential directions in which technological change impacts upon photography, the production of imagery and their applications in the real and virtual worlds.

Accordingly, the course balances practical skills with theoretical underpinnings, ethics and creative speculation. All studio subjects are project based and rely on professional practice in their requirements, giving students the capacity to handle the expectations of professional life.

Course aims
This degree equips graduates to engage in the broad, international scope of photographic careers. Students graduate with skills of self-reflection in their practice, critical engagement with and responses to social and cultural issues, and a broad understanding of research practices.

Students also gain an understanding of new technologies for image and sound production, and new ways of approaching media in the environment. They also learn a different language and culture and travel overseas.

Career options
Career options include employment or self-employment in exhibition media, installation, interactive media and advertising, photographic lighting, photographic technical and digital workflow practice, photojournalism and traditional commercial photography.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to photography and situated media and 96 credit points relating to international studies.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
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</tr>
<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96 cp</td>
</tr>
<tr>
<td>STM90580</td>
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<td>Total</td>
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Honours
The Bachelor of Design in Photography and Situated Media (Honours) is available to eligible students with one additional year of full-time study, or equivalent part-time study.

Other information
Further information on the photography and situated media component is available from:
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
Further information on the international studies component is available from the Building 1 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10269v1 Bachelor of Sound and Music Design

Overview
This course is the first of its kind in Australia to combine the domains of sound and music, and prepare students for new emerging domains that require the confluence of sound in design and interaction.

The course appeals to students with an interest in music, creative arts, design and technology, or multimedia. It converges creative practice (art thinking) and innovative solution (design thinking) through music and sound. It offers a unique, contemporary sound and music degree experience by merging art and technology across domains of composition, entertainment and audio technology, as well as combining features of music and audio engineering with interaction design.

Course aims
Students’ learning outcomes include expression through creative practice, and technical fluency across a range of technologies.

Career options
Career options include working in sound design or production across a diverse range of media, communication and design outlets including architecture, animation, exhibition design, gaming, music, product design and web applications.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent.

The English proficiency requirement for international students is: Academic IELTS: 7.0 overall with a writing score of 7.0, or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Local students
Local students apply through the Universities Admissions Centre with first round applications closing 31 October, and final round closing 31 January each year.

International students
International students apply through UTS International.

Assumed knowledge
Any two units of English and computer literacy.

Course duration and attendance
The course is offered on a three-year, full-time basis.

Course structure

Students must complete 144 credit points, comprising 96 credit points of core subjects (includes 42 credit points of interdisciplinary studio subjects), 24 credit points of sub-majors and 24 credit points of electives.

Industrial training/professional practice

Studio-based and professional practice subjects are highly flexible, allowing students to foster their specialisation and interests through practical projects, critical review, documentation development and collaboration with industry professionals.

Course completion requirements

<table>
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<tr>
<th>Course Code</th>
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</tr>
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<td>STM90580</td>
<td>Core subjects (PSM + SMD)</td>
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<tr>
<td>CBK90379</td>
<td>Sub-major choice (SMD)</td>
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Course program

The typical program shown below is for a full-time student undertaking the no specified sub-major option.

No specified sub-major

Year 1

Autumn semester
STM90225
50830 Contemporary Music I 6cp
50831 Sonology 6cp
50832 Electronic Music Composition 6cp
STM90580
80064 Interaction-based Designing 6cp

Spring semester

STM90225
50833 Speech, Music, Sound 6cp
50834 Audio Production 6cp
STM90580
50846 Situated Media Installation Studio 12cp

Year 2

Autumn semester
STM90225
50835 Audio Culture 6cp
CBK90379 Sound for Time-based Media 6cp
Select 12 credit points of electives 12cp

Spring semester
STM90225
50837 Contemporary Music 2 6cp
STM90580
80046 Smart Object Studio 12cp
CBK90379 Live Sound 6cp

Year 3

Autumn semester
STM90580
50847 Visualisation and Sonification Studio 12cp
CBK90379 6cp
50844 Musical Instrument Design 6cp
Select 6 credit points of electives 6cp

Spring semester
STM90225
50836 Sonic Art 6cp
50838 Professional Practice (SMD) 6cp
CBK90379 6cp
50842 Electro-acoustic Composition 6cp
Select 6 credit points of electives 6cp

Other information

Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C10270v1 Bachelor of Sound and Music Design Bachelor of Arts in International Studies

Award(s): Bachelor of Sound and Music Design [BSoundMusDesign]
Bachelor of Arts in International Studies [BA]
UAC code: 609296
CRICOS code: 088113G
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview

This course is the first of its kind to combine the domains of sound and music, and prepare students for new emerging domains that require the confluence of sound in design and interaction. The degree integrates the study of sound and music with a major in the language and culture of another country.

The course appeals to students with an interest in music, creative arts, design and technology or multimedia. It converges creative practice (art thinking) and innovative solution (design thinking) through music and sound. It offers a unique, contemporary sound and music degree experience by merging art and technology across domains of composition, entertainment and audio technology, as well as combining features of music and audio engineering with interaction design. The course may also appeal to students who want an international study experience or are aiming for an international career.
Course aims
Students’ learning outcomes include expression through creative practice, and technical fluency across a range of technologies. The course also provides an opportunity to acquire knowledge and understanding of another language and culture.

Career options
Career options include working in sound design or production across a diverse range of media, communication and design outlets including architecture, animation, exhibition design, gaming, music, product design and web applications.

Specific examples include computer musicians, e-fashion designers, electronic music composers, information system (sonification) designers, installation artists/sound sculptors, interactive media artists, mobile/smart-phone and device audio interface designers, new media artists, new sonic interface designers, product audio designers and software interface designers. Career options are enhanced by international experience.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is based on merit in accordance with faculty admission requirements. There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Local students apply through the Universities Admissions Centre with first round applications closing 31 October, and final round closing 31 January each year.

International students
International students apply through UTS International.

Assumed knowledge
Any two units of English and computer literacy. There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points, comprising 144 credit points in sound and music design and 96 credit points in international studies. The sound and music design component is made up of 96 credit points of core subjects (includes 42 credit points of interdisciplinary studio subjects), 24 credit points of sub-majors and 24 credit points of electives. The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
Studio-based and professional practice subjects are highly flexible, allowing students to foster their specialisation and interests through practical projects, critical review, documentation development and collaboration with industry professionals.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Points</th>
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<tr>
<td>STM90225</td>
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<td>CBK90225</td>
<td>Electives (SMD)</td>
<td>24cp</td>
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<td>Sonic Art</td>
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<tr>
<td>CBK90379</td>
<td>Electro-acoustic Composition</td>
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</table>

Total 240cp

Course program
The typical program shown below is for a full-time student undertaking the no specified sub-major in the sound and music design component and the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Germany major, No specified sub-major

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>Autumn</td>
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<td>Contemporary Music 1</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>STM90379</td>
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</tr>
<tr>
<td></td>
<td>STM90580</td>
<td>Core subjects (PSM + SMD)</td>
<td>54cp</td>
</tr>
<tr>
<td></td>
<td>CBK90378</td>
<td>Sub-major choice (SMD)</td>
<td>24cp</td>
</tr>
<tr>
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<td>Electives (SMD)</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td></td>
<td>STM90225</td>
<td>Speech, Music, Sound</td>
<td>6cp</td>
</tr>
<tr>
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<td>STM90580</td>
<td>Audio Production</td>
<td>6cp</td>
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<tr>
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<td>Smart Object Studio</td>
<td>12cp</td>
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Year 2

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<th>Course Description</th>
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Year 3

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<th>Course Description</th>
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<td>CBK90379</td>
<td>Electro-acoustic Composition</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

• The course has:
  - practice.
  - international studios. Students develop the flexibility and confidence through a variety of interdisciplinary subjects, industry projects and
  - The course cultivates a collaborative and global vision of design consolidated in design outcomes.
  - a cohesive design approach where research and practice are reflective and critical engagement. In doing so, students generate an explorative attitude toward the design process, underpinned by a reflective and critical engagement. In doing so, students generate a cohesive design approach where research and practice are consolidated in design outcomes.
  - The course equips graduates with critical thinking, spatial intelligence, creativity and the skills to engage across the expanded field of interior and spatial design encompasses a range of connected practices that engage directly and creatively with space, from designing an exhibition to
  - Spatial design encompasses a range of connected practices that engage directly and creatively with space, from designing an exhibition to art directing a performance.
  -国际isation and design practice.
  - The course aims

Career options

Career options include commercial and residential interior design, interactive and responsive environment design, museum and exhibition design, production design for film and television, theatre and performance design, and visual and spatial branding.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a three-year, full-time basis. There are generally up to 20 contact hours a week. Lectures and studios are on campus during semester.

Course structure

Students must complete 144 credit points comprising 96 credit points of core subjects, a 24-credit-point sub-major and 24 credit points of electives.

Course completion requirements

STM90724 Core subjects 96cp
CBK90822 Sub-major choice 24cp
CBK90823 Elective choice 24cp
Total 144cp

Course program

An example program is provided below.

Year 1

Autumn semester
86004 Design Studio: Foundations in Spatial Language 12cp
86008 Context: Image and Making (Representation) 6cp
85503 Design Thinking 6cp

Spring semester
85502 Researching Design History 6cp
86005 Design Studio: Foundations in Spatial Design 12cp
86009 Context: Image and Making (Generative Methods) 6cp

Year 2

Autumn semester
86529 Design Studio: Inhabititations 12cp
86113 Context: Experimentations 6cp
Select 6 credit points of electives 6cp

Spring semester
86114 Context: Inhabititations 6cp
Select 12 credit points from the following options: 12cp
86112 Design Studio: Experimentations 12cp
86530 Design Studio: Performative Spaces 1 12cp
Select 6 credit points of electives 6cp

C10271V1 Bachelor of Design in Interior and Spatial Design

Award(s): Bachelor of Design in Interior and Spatial Design (BDesign)
UAC code: 602060
CRICOS code: 071631C
Commonwealth-funded place?: Yes
Load credit points: 144
Course EFTSL: 3

Note(s)
The mid-year intake for this course is only for students transferring from C10057.

Overview

With a strong emphasis on creativity and technology, the Bachelor of Design in Interior and Spatial Design is the first university program of its kind in Australia. While interior design is an established profession, spatial design encompasses a range of connected practices that engage directly and creatively with space, from designing an exhibition to art directing a performance.

The course equips graduates with critical thinking, spatial intelligence, creativity and the skills to engage across the expanded field of interior and spatial design, to take up leading roles in industry. Uniquely, this course emphasises digital and analogue technologies of representation and fabrication, internationalisation and design practice.

Course aims

Through their study, students develop spatial intelligence and excellence in design practice. The program fosters a creative and explorative attitude toward the design process, underpinned by a reflective and critical engagement. In doing so, students generate a cohesive design approach where research and practice are consolidated in design outcomes.

The course cultivates a collaborative and global vision of design through a variety of interdisciplinary subjects, industry projects and international studios. Students develop the flexibility and confidence to work in the divergent and novel environments of contemporary practice.

The course has:
• an emphasis on creative, innovative spatial practice and international networks
• practice-oriented and research-integrated learning around specific projects
• engagement with innovative and creative technologies
• an emphasis on emerging design practices, and
• close links with creative practitioners.

Students are expected to develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

Career options

Career options include commercial and residential interior design, interactive and responsive environment design, museum and exhibition design, production design for film and television, theatre and performance design, and visual and spatial branding.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a three-year, full-time basis. There are generally up to 20 contact hours a week. Lectures and studios are on campus during semester.

Course structure

Students must complete 144 credit points comprising 96 credit points of core subjects, a 24-credit-point sub-major and 24 credit points of electives.

Course completion requirements

STM90724 Core subjects 96cp
CBK90822 Sub-major choice 24cp
CBK90823 Elective choice 24cp
Total 144cp

Course program

An example program is provided below.

Year 1

Autumn semester
86004 Design Studio: Foundations in Spatial Language 12cp
86008 Context: Image and Making (Representation) 6cp
85503 Design Thinking 6cp

Spring semester
85502 Researching Design History 6cp
86005 Design Studio: Foundations in Spatial Design 12cp
86009 Context: Image and Making (Generative Methods) 6cp

Year 2

Autumn semester
86529 Design Studio: Inhabititations 12cp
86113 Context: Experimentations 6cp
Select 6 credit points of electives 6cp

Spring semester
86114 Context: Inhabititations 6cp
Select 12 credit points from the following options: 12cp
86112 Design Studio: Experimentations 12cp
86530 Design Studio: Performative Spaces 1 12cp
Select 6 credit points of electives 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

The course cultivates a collaborative and global vision of design through a variety of interdisciplinary subjects, industry projects and international studies. Students develop the flexibility and confidence to work in the divergent and novel environments of contemporary practice.

The course has:
- an emphasis on creative, innovative spatial practice and international networks
- practice-oriented and research-integrated learning around specific projects
- engagement with innovative and creative technologies
- an emphasis on emerging design practices, and
- close links with creative practitioners.

Students are expected to develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

The aim of this combined degree is to produce graduates who have developed perspectives and understandings that enable them to meet the professional demands of an internationalised marketplace.

Career options
Career options include commercial and residential interior design, interactive and responsive environment design, museum and exhibition design, production design for film and television, theatre and performance design, and visual and spatial branding.

Career options are enhanced by international experience, making students more marketable to prospective employers.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying overseas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Course duration and attendance
The course is offered on a five-year, full-time basis. There are generally up to 20 contact hours a week. Lectures and studios are on campus during semester. Semesters are focused around design studios that incorporate advanced communication and technology skills with innovative design thinking and practice.

Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 144 credit points comprising 96 credit points of core subjects, a 24-credit-point sub-major, 24 credit points of electives in interior and spatial design, and 96 credit points of international studies subjects.

Overseas study
Students spend their fourth year of study at a university overseas.

Course completion requirements

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90830</td>
<td>Sub-major choice</td>
<td>24cp</td>
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<tr>
<td>CBK90823</td>
<td>Elective choice</td>
<td>24cp</td>
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<tr>
<td>STM00724</td>
<td>Core subjects</td>
<td>96cp</td>
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<tr>
<td>CBK900005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>240cp</td>
</tr>
</tbody>
</table>
Course program
An example program is shown below for students commencing in Autumn semester and undertaking the course with the Germany major as the international studies major.

Year 1
Autumn semester
86004 Design Studio: Foundations in Spatial Language 12cp
86008 Context: Image and Making (Representation) 6cp
85503 Design Thinking 6cp
Spring semester
86009 Design Studio: Foundations in Spatial Design 12cp
86039 Context: Image and Making (Generative Methods) 6cp
85502 Researching Design History 6cp

Year 2
Autumn semester
976001 Foundations in International Studies 8cp
97601 German Language and Culture 1 8cp
Select 6 credit points of electives 6cp
Spring semester
97602 German Language and Culture 2 8cp
86114 Context: Inhabitations 6cp
86112 Design Studio: Experimentations 12cp

Year 3
Autumn semester
97603 German Language and Culture 3 8cp
86529 Design Studio: Inhabitations 12cp
86113 Context: Experimentations 6cp
Spring semester
97604 German Language and Culture 4 8cp
976421 Contemporary Germany 8cp
Select 6 credit points of electives 6cp

Year 4
Autumn semester
977420 In-country Study 1: Germany 24cp
Spring semester
978420 In-country Study 2: Germany 24cp

Year 5
Autumn semester
86221 Context: Explorations 6cp
86531 Design Studio: Explorations 12cp
Select 6 credit points of electives 6cp
Spring semester
86222 Context: Interdisciplinary 6cp
86223 Design Studio: Industry 12cp
Select 6 credit points of electives 6cp

Other information
Further information is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

C10273v1 Bachelor of Design in Animation
Award(s): Bachelor of Design in Animation (BDesign)
UAC code: 602035
CRICOS code: 074703A
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3

Overview
This course offers a practice-based approach to learning animation and places strong emphasis on two key concepts: dramatisation (including performance and character) and VFX (visual effects) design. It teaches students how to conceptualise, visualise and realise animation across many different types of media. Central to the course is the development of a conceptual understanding of performance, narrative, characterisation, form, motion, time, space and aesthetics.

The course has a strong emphasis on drawing and image-making, dramatisation, physical movement and expression, teaching a full range of animation techniques and skills in industry-standard facilities.

Through a variety of interdisciplinary subjects, industry-focused projects and international studios, students develop the flexibility and confidence to work in the diverse environments of contemporary practice.

The course focuses on a set of animation studios that concentrate student learning through design projects. The animation studios integrate practice-oriented learning that allows time for a high level of individual presentation and in-depth consultation, complemented by a series of related context subjects that spans drawing and 2D animation practices to 3D and 2D digital practices.

Course aims
This course gives students skills and an outlook that extends beyond the university, and cultivates a collaborative and global vision of design. As part of the ongoing development of key industry innovators, the course aims to create new approaches to 2D and 3D animation and VFX design, enabling graduates to better develop, adapt and respond to a range of creative partnerships and collaborations.

Students develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

Career options
This course opens up animation careers in film, television, and online and mobile application design. Career options include director, producer, storyboard artist, previsionalisation (previ) artist, layout artist, concept artist, production designer, art director, character designer, animator, modeler, rigger, motion capture designer, lighting designer, matchmove/3D tracker, effects (FX) animator, roto designer, compositor, stop frame model animator (claymation), and animation scriptwriter.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a three-year, full-time or part-time equivalent basis.
Course structure
Students must complete 144 credit points made up of 96 credit points of core subjects, a 24-credit-point sub-major and 24 credit points of electives.

Course completion requirements
<table>
<thead>
<tr>
<th>Component</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core subjects</td>
<td>96cp</td>
</tr>
<tr>
<td>Elective choice</td>
<td>24cp</td>
</tr>
<tr>
<td>Sub-major choice</td>
<td>24cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
</tbody>
</table>

Course program
A typical full-time program is shown below.

**Year 1**

**Autumn semester**
- 82120 Animation Studio: Foundations in Animation Language
- 82121 Context: 2D Animation Introduction
- 85503 Design Thinking

**Spring semester**
- 82220 Animation Studio: Foundations in Animation Design
- 82221 Context: 3D Animation Introduction
- 85502 Researching Design History

**Year 2**

**Autumn semester**
- 82320 Animation Studio: Narrative Investigations
- 82321 Context: 3D Animation Advanced
- Select 6 credit points of electives

**Spring semester**
- 82420 Context: 2D Animation Advanced
- Select 12 credit points from the following options: 12cp
  - 88211 Animation Studio: Narrative Experimentations
  - 88201 Animation Studio: VFX Design Introduction
- Select 6 credit points of electives

**Year 3**

**Autumn semester**
- 82520 Context: Design for Three-dimensional Computer Animation
- Select 12 credit points from the following options: 12cp
  - 88212 Animation Studio: Animation Practice
  - 88202 Animation Studio: VFX Design Advanced
- Select 6 credit points of electives

**Spring semester**
- 82621 Context: Experimentations for Animation and VFX
- 88212 Animation Studio: Animation Practice
- Select 6 credit points of electives

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 807) or +61 2 9514 1223
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C10274v1 Bachelor of Design in Animation Bachelor of Arts in International Studies

**Award(s):** Bachelor of Design in Animation (BDesign)
Bachelor of Arts in International Studies (BA)
UAC code: 609258
CRICOS code: 07470M
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5

**Overview**
This course offers a practice-based approach to learning animation and places strong emphasis on two key concepts: dramatisation (including performance and character) and VFX (visual effects) design. It teaches students how to conceptualise, visualise and realise animation across many different types of media. Central to the course is the development of a conceptual understanding of performance, narrative, characterisation, form, motion, time, space and aesthetics.

The combined degree program provides students with additional practical skills, in particular skills that make them aware of the international contexts of animation design, by providing them with the opportunity to acquire knowledge of a language and culture other than English.

This course has a strong emphasis on drawing and image-making, dramatisation, physical movement and expression, teaching a full range of animation techniques and skills in industry-standard facilities.

Through a variety of interdisciplinary subjects, industry-focused projects and international studios, students develop the flexibility and confidence to work in the diverse environments of contemporary practice.

The course focuses on a set of animation studios that concentrate student learning through design projects. The animation studios integrate practice-oriented learning that allows time for a high level of individual presentation and in-depth consultation, complemented by a series of related context subjects that spans drawing and 2D animation practices to 3D and 2D digital practices.

The international experience enhances career options, making students more marketable to prospective employers.

**Course aims**
This course gives students skills and an outlook that extend beyond the university, and cultivate a collaborative and global vision of design. As part of the ongoing development of key industry innovators, the course aims to create new approaches to 2D and 3D animation and VFX design, enabling graduates to better develop, adapt and respond to a range of creative partnerships and collaborations.

Students develop an understanding of their individual design language and theoretical position in relation to historic and contemporary contexts.

This combined degree produces graduates who have developed perspectives and skills that enable them to meet the professional demands of an international marketplace.

**Career options**
This course opens up international animation careers in film, television, and online and mobile application design. Career options include director, producer, storyboard artist, previsualisation (previs) artist, layout artist, concept artist, production designer, art director, character designer, animator, modeler, rigger, motion capture designer, lighting designer, matchmover / 3D tracker, effects (FX) animator, roto designer, compositor, stop frame model animator (claymation), and animation screenwriter.

**Admission requirements**
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a five-year, full-time basis.

Course structure
Students must complete 240 credit points made up of 144 credit points in animation and 96 credit points in international studies.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90837</td>
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<tr>
<td>CBK90836</td>
<td>Sub-major choice</td>
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<td>STM90740</td>
<td>Core subjects</td>
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<tr>
<td>CBK90005</td>
<td>Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
An example program is provided below for a student commencing in Autumn semester and undertaking the course with the Germany major as the international studies major.

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>86004 Design Studio: Foundations in Spatial Language</td>
</tr>
<tr>
<td>86008 Context: Image and Making (Representation)</td>
</tr>
<tr>
<td>85503 Design Thinking</td>
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</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>86005 Design Studio: Foundations in Spatial Design</td>
</tr>
<tr>
<td>86009 Context: Image and Making (Generative Methods)</td>
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<tr>
<td>85502 Researching Design History</td>
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Year 2

<table>
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<tr>
<th>Autumn semester</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>976001 Foundations in International Studies</td>
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<tr>
<td>97601 German Language and Culture 1</td>
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<tr>
<td>Select 6 credit points of electives</td>
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<tr>
<th>Spring semester</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>97602 German Language and Culture 2</td>
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<tr>
<td>86114 Context: Inhabitations</td>
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<tr>
<td>86529 Design Studio: Inhabitations</td>
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Year 3

<table>
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<td>97603 German Language and Culture 3</td>
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<td>86112 Design Studio: Experimentations</td>
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<td>86113 Context: Experimentations</td>
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<thead>
<tr>
<th>Spring semester</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>97604 German Language and Culture 4</td>
</tr>
<tr>
<td>976421 Contemporary Germany</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
</tr>
</tbody>
</table>

Year 4

<table>
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<tr>
<th>Autumn semester</th>
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<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>977420 In-country Study 1: Germany</td>
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</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>978420 In-country Study 2: Germany</td>
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</table>

Year 5

<table>
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<tr>
<th>Autumn semester</th>
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<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>86221 Context: Explorations</td>
</tr>
<tr>
<td>86531 Design Studio: Explorations</td>
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<tr>
<td>Select 6 credit points of electives</td>
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</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>86222 Context: Interdisciplinary</td>
</tr>
<tr>
<td>86223 Design Studio: Industry</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
</tr>
</tbody>
</table>

Other information
Further information on the animation component is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
Further information on the international studies component is available from the Building 1 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au

C10300v1 Bachelor of Human Movement

Award(s): Bachelor of Human Movement (BHM)
UAC code: 606020
CRICOS code: 008760F
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Overview
The Bachelor of Human Movement meets the demand for professionals able to provide physical activity services to all sectors of the community.

The course provides students with a strong understanding of the processes and mechanisms underlying human movement, and with the knowledge and skills necessary to manage and plan human movement activities in leisure, sport, health and education contexts.

Students who complete this course are eligible for direct entry into the Bachelor of Teaching in Secondary Education (PDHPE major) (C1E8002) see page 468 offered by UTS: Education. This course is formally accredited with the NSW Institute of Teachers and provides PDHPE students with the opportunity to complete two degrees.

Course aims
The Bachelor of Human Movement aims to provide graduates with the necessary skills to gain initial employment in the human movement field, as well as the analytical skills necessary for critical appraisal of developments in the field.

Career options
Career options include sports science, corporate health and wellbeing, strength and conditioning, personal training, physiotherapy (pathway), sports coaching, teaching personal development, health and physical education (PDHPE), outdoor education and facility management.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

This course is also available to mature-aged applicants where preference is given to those with vocational experience in the broad field of human movement. Non-current school leavers should submit a personal statement to UTS by 30 November 2012. Further information is available from:
www.undergraduate.uts.edu.au/apply

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.
International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge

Mathematics and any two units of English.

Credit recognition

After admission, students may apply for credit recognition in subjects in which they consider themselves eligible. Equivalence of subject matter is the main criterion for the award of credit recognition in a subject successfully completed at another institution.

Course duration and attendance

The course is available on a three-year, full-time basis. Students should be aware that they may be required to attend evening classes. This course is currently offered at Kuring-gai campus only.

Course structure

Students must complete at least 144 credit points over 24 subjects. Students choose four electives, appropriate to their chosen career, to complement the core subjects in the degree. Students studying to be a physical education teacher must take the performance studies subjects as electives.

Industrial training/professional practice

The course has an extensive compulsory internship program.

Course completion requirements

<table>
<thead>
<tr>
<th>STM90178 Core subjects</th>
<th>120cp</th>
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</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90190 Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90698 PDHPE stream</td>
<td>24cp</td>
</tr>
<tr>
<td>Total 144cp</td>
<td></td>
</tr>
</tbody>
</table>

Course program

A typical course program shown below is for the non-PDHPE teacher option.

PDHPE students must choose Performance Studies 1, 2 and 3 as their electives in year three.

Year 1

**Autumn semester**
- 27111 Mechanics of Human Motion 6cp
- 27180 Functional Kinesiology 6cp
- 27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp
- 91429 Physiological Bases of Human Movement 6cp

**Spring semester**
- 27152 Measurement and Development of Physical Capacity 6cp
- 27171 Applied Kinesiology 6cp
- 27252 The Sport Industry 6cp
- 27228 Lifespan Development 6cp

Year 2

**Autumn semester**
- 27175 Energetics of Human Movement 6cp
- 27155 Research for Human Movement 6cp
- 27160 Sport and Exercise Psychology 6cp
- 27331 Skill Acquisition 6cp

**Spring semester**
- 27222 Exercise Prescription 6cp
- 27105 Nutrition for Health and Physical Activity 6cp
- 27227 Critical Issues in Health and Wellbeing 6cp
- Select 6 credit points of electives 6cp

Year 3

**Autumn semester**
- 27308 Exercise Management for Special Populations 6cp
- 27341 Health Promotion 6cp
- 27350 Professional Internship (Capstone) 6cp
- Select 6 credit points of electives 6cp

Spring semester
- 27174 Analysis of Human Motion 6cp
- 27173 Human Performance in Sport and Exercise 6cp
- Select 12 credit points of electives 12cp

Honours

The Bachelor in Human Movement (Honours) (C09057) (see page 121) is available to eligible students with an additional year of full-time study, or two years of part-time study.

Further study at UTS

Students who complete this course are eligible for direct entry into the Bachelor of Teaching in Secondary Education (PDHPE major) (C08002) (see page 468) offered by UTS: Education. This course is formally accredited with the NSW Institute of Teachers and provides PDHPE students with the opportunity to complete two degrees.

Professional recognition

NSW Department of Education and Training (for those students who go on to complete the Bachelor of Teaching in Secondary Education).

Other information

Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

C10301v1 Bachelor of Management in Sport and Exercise

Award(s): Bachelor of Management in Sport and Exercise (BM)
UAC code: 606030
CRICOS code: 032306F
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Overview

This course develops graduates who possess a sound knowledge of the biophysical, behavioural and sociocultural foundations of sport and exercise, combined with the management skills and knowledge increasingly necessary in sport and exercise professions. As the sport and exercise industry has undergone a period of substantial growth, the need for professionals with management skills and qualifications has become increasingly important. Graduates are equipped with the professional knowledge and skills to operate in one of Australia’s most dynamic industries.

Career options

Career options include athlete management, corporate health and fitness consultant, health promotion, sport development manager, sport event manager, sport marketing, sport policy, sport scientist, sport venue manager.

Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Non-current school leavers are strongly advised to submit a personal statement directly to UTS by 30 November 2012. Further information is available from: www.undergraduate.uts.edu.au/apply
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5, or TOEFL: paper based: 550-583, or TOEFL: internet based: 79-95, or DEEP: B1; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying...
on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**
Mathematics and any two units of English.

**Credit recognition**
After admission, students may apply for credit recognition in subjects in which they consider themselves eligible. Equivalence of subject matter is the main criterion for credit recognition in a subject successfully completed at another institution.

**Course duration and attendance**
The course is taught on a full-time basis. The normal time for completion is three years. Students are required to attend some evening classes as part of their program of study. This course is currently offered at Kuring-gai campus only.

**Course structure**
Students must complete 144 credit points comprising 24 subjects, made up of 20 core subjects and four elective subjects.

**Industrial training/professional practice**
The course has an extensive compulsory internship program and a number of industry-based projects.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90176 Core subjects</td>
<td>120cp</td>
</tr>
<tr>
<td>CBK90376 Sub-major / Four electives</td>
<td>24cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
</tbody>
</table>

**Course program**
A typical course program is shown below.

### Year 1

#### Autumn semester
21129 Managing People and Organisations 6cp
27111 Mechanics of Human Motion 6cp
27180 Functional Kinesiology 6cp
27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp

#### Spring semester
27152 Measurement and Development of Physical Capacity 6cp
27171 Applied Kinesiology 6cp
27252 The Sport Industry 6cp
22107 Accounting for Business Decisions A 6cp

### Year 2

#### Autumn semester
27155 Research for Human Movement 6cp
27307 Sport Management 6cp
27175 Energetics of Human Movement 6cp
27160 Sport and Exercise Psychology 6cp

#### Spring semester
24108 Marketing Foundations 6cp
27105 Nutrition for Health and Physical Activity 6cp
27222 Exercise Prescription 6cp
Select 6 credit points of electives 6cp

### Year 3

#### Autumn semester
27308 Exercise Management for Special Populations 6cp
27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
27350 Professional Internship (Capstone) 6cp
Select 6 credit points of electives 6cp

#### Spring semester
27161 Sport Marketing 6cp
27628 Law for Leisure, Sport and Tourism 6cp
Select 12 credit points of electives 12cp

**Honours**
The Bachelor of Management (Honours) in Sport and Exercise (C09058) (see page 122) is available to eligible students with an additional one year of full-time, or two years of part-time study.

**Other information**
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au

**C10302v1 Bachelor of Human Movement Bachelor of Arts in International Studies**
Award(s): Bachelor of Human Movement (BHM)
Bachelor of Arts in International Studies (BA)
UAC code: 699890
CRICOS code: 026188B
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: Kuring-gai campus

**Overview**
The Bachelor of Human Movement Bachelor of Arts in International Studies is offered jointly by UTS: Health and UTS: International Studies. The degree integrates human movement studies with a major in the language and culture of another country.

**Career options**
Career options include exercise therapy and teaching of personal development, fitness and corporate health, facility management, health, physical education and outdoor education, sport coaching, sport development, sport management, and sports science and team conditioning. Career options are enhanced by international experience, making students more marketable to prospective employers.

**Admission requirements**
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Human Movement (C10300) (see page 288). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students' preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**
There are no prior language requirements for the international studies program (see page 87).

**Credit recognition**
For credit recognition, see the Bachelor of Human Movement (C10300) (see page 288).
Course duration and attendance
The course is offered on a five-year, full-time basis. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to human movement and 96 credit points relating to international studies. For full details of the Bachelor of Human Movement component of the combined degree, refer to the Bachelor of Human Movement (C10300) (see page 288). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
This course has a professional internship component that includes a minimum of six weeks' work experience.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM90178 Core subjects</td>
<td>120cp</td>
</tr>
<tr>
<td>CBK90005 Country major choice</td>
<td>96cp</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CBK90190 Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90698 PDHPE stream</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>240cp</td>
</tr>
</tbody>
</table>

Course program
The typical program shown below is for a full-time student who has chosen the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Mechanics of Human Motion</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Functional Kinesiology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Sociocultural Concepts for Leisure, Sport and Tourism</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Physiological Bases of Human Movement</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Measurement and Development of Physical Capacity</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Applied Kinesiology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Lifespan Development</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>The Sport Industry</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Energetics of Human Movement</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Research for Human Movement</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Foundations in International Studies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 1</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Exercise Prescription</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Nutrition for Health and Physical Activity</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 2</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Skill Acquisition</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Sport and Exercise Psychology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 3</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Analysis of Human Motion</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Critical Issues in Health and Wellbeing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 4</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Contemporary Germany</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>In-country Study 1: Germany</td>
<td>24cp</td>
</tr>
<tr>
<td>Spring</td>
<td>In-country Study 2: Germany</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Year 5

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>27341 Health Promotion</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>27350 Professional Internship (Capstone)</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>27308 Exercise Management for Special Populations</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Human Performance in Sport and Exercise</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit points of electives</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Further study at UTS
Students who complete the Bachelor of Human Movement with the PDHPE stream are guaranteed entry into the Bachelor of Teaching in Secondary Education (C08002) (see page 468) with a personal development, health and physical education (PDHPE) major. Students in the Bachelor of Teaching in Secondary Education are granted 72 credit points of exemptions in credit recognition and are required to complete 72 credit points of study which may be undertaken in one year of intensive full-time study. Refer to C08002 (see page 468) for further details.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au www.nmh.uts.edu.au www.internationalstudies.uts.edu.au

C10303v1 Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies
Award(s): Bachelor of Management in Sport and Exercise (BM) Bachelor of Arts in International Studies (BA)
UAC code: 609085
CRICOS code: 032369B
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: Kuring-gai campus

Note(s)
Students who commenced this program prior to 2007 should consult with the undergraduate course director on transition arrangements arising from changes to the Bachelor of Management in Sport and Exercise (C10301) (see page 289), which became effective in Autumn semester 2007.

Overview
This course is offered jointly by UTS: Health and UTS: International Studies. It integrates the study of sport and exercise management with a major in the language and culture of another country.

Career options
Career options include corporate health and fitness manager, events manager, exercise therapist, health and fitness consultant, sport coach, sport development officer, sport manager, sport marketing coordinator or sporting facility manager. Career options are enhanced by international experience, making students more marketable to prospective employers.
Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

Admission to the combined degree is on merit according to the admissions policy for the Bachelor of Management in Sport and Exercise (C10301) (see page 289). There is a range of entry levels to the various language and culture programs. Students are admitted to the international studies program with no guarantee of entry to a specific major, although every effort is made to meet students’ preferences.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
There are no prior language requirements for the international studies program (see page 87).

Credit recognition
For credit recognition, see the Bachelor of Management in Sport and Exercise (C10301) (see page 289).

Course duration and attendance
The course is offered as a full-time program over five years. Students spend two semesters of study at a university or other higher education institution in the country of their major. The international studies component of the course is mainly offered at City campus.

Course structure
Students must complete 240 credit points of study, comprising 144 credit points relating to management in sport and exercise and 96 credit points relating to international studies. For full details of the Bachelor of Management in Sport and Exercise component of the combined degree, refer to the Bachelor of Management in Sport and Exercise (C10301) (see page 289). The Bachelor of Arts in International Studies requires undergraduates to study a region or country major over a minimum of three years. The Bachelor of Arts in International Studies is not offered as a separate degree, but is completed only in combination with the professional degree program.

Overseas study
Students spend their fourth year of study at a university overseas.

Industrial training/professional practice
This course has a professional internship component that includes a minimum of six weeks’ work experience.

Course completion requirements
CBK90005 Country major choice 96cp
STM90176 Core subjects 120cp
CBK90190 Electives 24cp
Total 240cp

Course program
The typical program shown below is for a full-time student who has chosen the Germany major as their international studies major. Other countries may be chosen from the list of majors in CBK90005; the program has the same structure but with subjects specific to the chosen country major.

Typical full-time program

### Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>21129 Managing People and Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>27111 Mechanics of Human Motion 6cp</td>
</tr>
<tr>
<td></td>
<td>27180 Functional Kinesiology 6cp</td>
</tr>
<tr>
<td></td>
<td>27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp</td>
</tr>
</tbody>
</table>

### Spring semester

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>27152 Measurement and Development of Physical Capacity 6cp</td>
</tr>
<tr>
<td>22107 Accounting for Business Decisions A 6cp</td>
</tr>
<tr>
<td>27252 The Sport Industry 6cp</td>
</tr>
<tr>
<td>27171 Applied Kinesiology 6cp</td>
</tr>
</tbody>
</table>

### Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>27175 Energetics of Human Movement 6cp</td>
</tr>
<tr>
<td></td>
<td>27307 Sport Management 6cp</td>
</tr>
<tr>
<td></td>
<td>976001 Foundations in International Studies 8cp</td>
</tr>
<tr>
<td></td>
<td>97601 German Language and Culture 1 8cp</td>
</tr>
</tbody>
</table>

### Spring semester

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>27222 Exercise Prescription 6cp</td>
</tr>
<tr>
<td>27105 Nutrition for Health and Physical Activity 6cp</td>
</tr>
<tr>
<td>24108 Marketing Foundations 6cp</td>
</tr>
<tr>
<td>97602 German Language and Culture 2 8cp</td>
</tr>
</tbody>
</table>

### Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>27160 Sport and Exercise Psychology 6cp</td>
</tr>
<tr>
<td></td>
<td>27155 Research for Human Movement 6cp</td>
</tr>
<tr>
<td></td>
<td>27308 Exercise Management for Special Populations 6cp</td>
</tr>
<tr>
<td></td>
<td>97603 German Language and Culture 3 8cp</td>
</tr>
</tbody>
</table>

### Spring semester

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>27628 Law for Leisure, Sport and Tourism 6cp</td>
</tr>
<tr>
<td>97604 German Language and Culture 4 8cp</td>
</tr>
<tr>
<td>976421 Contemporary Germany 8cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives 6cp

### Year 4

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>977420 In-country Study 1: Germany 24cp</td>
</tr>
</tbody>
</table>

### Spring semester

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>978420 In-country Study 2: Germany 24cp</td>
</tr>
</tbody>
</table>

### Year 5

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp</td>
</tr>
<tr>
<td></td>
<td>27350 Professional Internship (Capstone) 6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives 6cp</td>
</tr>
</tbody>
</table>

### Spring semester

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>27161 Sport Marketing 6cp</td>
</tr>
<tr>
<td>Select 12 credit points of electives 12cp</td>
</tr>
</tbody>
</table>

### Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.nmh.uts.edu.au
www.internationalstudies.uts.edu.au

292 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
## C10304v1 Bachelor of Design in Integrated Product Design

**Award(s):** Bachelor of Design in Integrated Product Design (BDesign)

**Location:** City campus

### Overview

Integrated product design expands on the traditional field of industrial design to reflect the changed realities of the globalised design profession. The course offers a practice-based approach to learning through the integration of digital and analogue technologies across the broad field of integrated product design, as well as the potential for specialisation within highly contemporary and innovative integrated design practices.

With a strong emphasis on creativity and technology, graduates move seamlessly from the design of material objects to the design of associated services together with the skills to maintain a specialist role within an interdisciplinary team. Structured around design studios, this dynamic course allows specialisations such as interaction design, smart object design, interactive product design, system design. The design studio integrates practice-orientated learning around specific projects.

### Course aims

The course aims to support and foster a creative and explorative attitude toward the design process. It equips its graduates with the ability to effectively function on the international stage with ease and success, with the communication skills that allow them to operate across cultures, languages and location.

The course takes an experimental and hybrid approach to the integration of networked digital technologies into the design of products and systems. Students gain an integrated approach and understanding of how to conceptualise, visualise and realise products, services and/or systems as a design professional.

Innovation and experimentation is underpinned by theoretical, historical and contextual studies to facilitate students’ development in both the conceptual and technical design skills required to work within the broader integrated product design field, and its specialist areas. Throughout each stage, the course requires students to develop an understanding of their own design language and theoretical position in relation to historic and contemporary contexts.

### Career options

Career options include corporate or in-house designer, design consultant, production manager, industrial designer, interaction designer, designer of smart objects, interactive product designer, system designer, furniture, product or accessories designer, design communication professional, design researcher, commercialisation professional.

### Admission requirements

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

### International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Course duration and attendance

This course is offered on a three-year, full-time basis.

### Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>STM90788 Core subjects</td>
<td>96cp</td>
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<tr>
<td>CBK90242 Sub-major/Electives (DAB)</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90871 Sub-major options</td>
<td>24cp</td>
</tr>
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<td><strong>Total</strong></td>
<td><strong>144cp</strong></td>
</tr>
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### Course program

A typical program is shown below.

#### Year 1

**Autumn semester**
- 84610 Inside Design 6cp
- 84111 Understanding Three-dimensional Form 6cp

**Spring semester**
- 84611 Design Thinking in Integrated Product Design 6cp
- 84114 Integrated Product Design Digital Communication 6cp
- 84115 Informing Integrated Product Design 6cp
- 85502 Researching Design History 6cp

#### Year 2

**Autumn semester**
- 84711 User-Centred Design 12cp

**Spring semester**
- 84170 Research Methods in Integrated Product Design 6cp
- 84502 Sub-major options 24cp
- 85506 Select 6 credit points of electives 6cp

#### Year 3

**Autumn semester**
- 85302 Interdisciplinary Lab B 6cp
- 84811 Smart Design 12cp
- 85506 Select 6 credit points of electives 6cp

**Spring semester**
- 84134 Integrated Product Design Professional Communication 6cp
- 84502 Sub-major options 24cp
- 85506 Select 6 credit points of electives 6cp

### Other information

Further information is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

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**C10305v1 Bachelor of Design in Integrated Product Design Bachelor of Arts in International Studies**

**Award(s):** Bachelor of Design in Integrated Product Design (BDesign) Bachelor of Arts in International Studies (BA)

**Location:** City campus

### Overview

Integrated product design expands on the traditional field of industrial design to reflect the changed realities of the globalised design profession. The course offers a practice-based approach to learning through the integration of digital and analogue technologies across the
broad field of integrated product design, as well as the potential for specialisation within highly contemporary and innovative integrated product design practices.

The combined degree provides additional practical skills, in particular skills that make students aware of the international contexts of design, by providing them with the opportunity to acquire knowledge of a language and culture other than English.

With a strong emphasis on creativity and technology, graduates move seamlessly from the design of material objects to the design of associated services together with the skills to maintain a specialist role within an interdisciplinary team.

Structured around design studios, this dynamic course allows specialisations like interaction design, smart object design, interactive product design, and system design. The design studio integrates practice-orientated learning around specific projects.

The international experience enhances career options, making students more marketable to prospective employers.

Course aims
The course aims to support and foster a creative and explorative attitude toward the design process. It equips its graduates with the ability to effectively function on the international stage with ease and success, with the communication skills that allow them to operate across cultures, languages and location.

The course takes an experimental and hybrid approach to the integration of networked digital technologies into the design of products and systems. Students form an integrated approach and understanding of how to conceptualise, visualise and realise products, services and/or systems as a design professional. Innovation and experimentation is underpinned by theoretical, historical and contextual studies to facilitate students' development in both the conceptual and technical design skills required to work within the broader integrated product design field, and its specialist areas.

Throughout each stage, the course requires students to develop an understanding of their own design language and theoretical position in relation to historic and contemporary contexts.

A further two years of study introduce and consolidate the learning of a language and culture other than English.

Career options
Career options include corporate or in-house designer, design consultant, production manager, industrial designer, interaction designer, designer of smart objects, interactive product designer, system designer, furniture, product or accessories designer, design communication professional, design researcher, commercialisation professional.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 6.0; or PTE: 58-66 overall with TWE of 4.5, internet based: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a five-year, full-time or part-time equivalent basis.

Course completion requirements

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<thead>
<tr>
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<td>CBK90871 Sub-major options</td>
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Course program
A typical program is shown below.

**Year 1**

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<th>Course Title</th>
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<tr>
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<td>84111</td>
<td>Understanding Three-dimensional Form</td>
<td>6cp</td>
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<tr>
<td></td>
<td>84112</td>
<td>Integrated Product Design Communications</td>
<td>6cp</td>
</tr>
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<td>85503</td>
<td>Design Thinking</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>84611</td>
<td>Design Thinking in Integrated Product Design</td>
<td>6cp</td>
</tr>
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<td></td>
<td>84114</td>
<td>Integrated Product Design Digital Communication</td>
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<td></td>
<td>84115</td>
<td>Informing Integrated Product Design</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>85502</td>
<td>Researching Design History</td>
<td>6cp</td>
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<table>
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<tr>
<th>Semester</th>
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<th>Course Title</th>
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<td>976001</td>
<td>Foundations in International Studies</td>
<td>8cp</td>
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<td></td>
<td>84710</td>
<td>Research Methods in Integrated Product Design</td>
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</tr>
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<td>Select 6 credit points of electives</td>
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<td>6cp</td>
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<td>97602</td>
<td>German Language and Culture 2</td>
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**Year 2**

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<td>User-Centred Design</td>
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<tr>
<td></td>
<td>97603</td>
<td>German Language and Culture 3</td>
<td>8cp</td>
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<td>Select 6 credit points of electives</td>
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<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>85202</td>
<td>Interdisciplinary Lab A</td>
<td>6cp</td>
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<tr>
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<td>97604</td>
<td>German Language and Culture 4</td>
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<td></td>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
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<td>6cp</td>
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**Year 4**

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<th>Course Title</th>
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</tr>
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<tbody>
<tr>
<td>Autumn</td>
<td>977420</td>
<td>In-country Study 1: Germany</td>
<td>24cp</td>
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<tr>
<td>Spring</td>
<td>978420</td>
<td>In-country Study 2: Germany</td>
<td>24cp</td>
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</table>

**Year 5**

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>Autumn</td>
<td>85302</td>
<td>Interdisciplinary Lab B</td>
<td>6cp</td>
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<tr>
<td></td>
<td>84811</td>
<td>Smart Design</td>
<td>12cp</td>
</tr>
<tr>
<td>Spring</td>
<td>84134</td>
<td>Integrated Product Design Professional Communication</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit points from the following options:</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>CBK90871 Sub-major options</td>
<td>24cp</td>
<td></td>
</tr>
</tbody>
</table>

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)  
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au  
www.dab.uts.edu.au

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Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Overview
The Bachelor of Design in Fashion and Textiles has been designed to enable students to create pathways of learning as they progress through the degree with a flexible and diverse approach to learning. Emphasis throughout this practice-based course is placed on value, innovation, creativity and responsible practice. Students should develop flexibility and confidence in working in and across the diverse environments that constitute contemporary practice.

The course centres around design studios which integrate practice-oriented learning around specific projects, and parallels the process that professionals undertake in industry. Professional practice is embedded in all fashion studios and builds on contemporary industry practice within both local and global markets. Projects are developed through both individual and group work, to simulate design team environments.

Course aims
The course is designed to provide students with an outlook and ambition that extends beyond the university, cultivating a collaborative and global vision of design. Central to the course is the integration of theory and practice in relation to fashion and textile design. Students are expected to develop an understanding of the formation and application of their own individual design language and theoretical position in relation to historical and contemporary contexts.

The first year introduces design principles and challenges design thinking. In the second year students have the opportunity to diversify according to their area of interest and strength in areas including innovation in material research, types of technologies, engaging with digital design, methods of construction, approaches to either flat patternmaking or draping.

The fashion studio and professional practice subjects in third-year have been designed to extend students’ understanding of global fashion and to provide students with a choice of design projects and areas of specialisation.

Career options
Career options include buyer, fashion editor, fashion or textile designer, illustrator or stylist. Some students start their own business, while others work within an established company. Graduates may also continue studies at postgraduate level.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a three-year, full-time or part-time equivalent basis.

Course completion requirements
STM90790 Core subjects 120cp
CBK90242 Sub-major/Electives (DAB) 24cp
Total 144cp

Course program
A typical program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>83111 Thinking Fashion 6cp</td>
<td>83343 Studio: Bespoke Fashion 6cp</td>
</tr>
<tr>
<td>83621 Studio: Foundations in Patternmaking and Construction 1 6cp</td>
<td>83341 Fashion, Gender and Identity 6cp</td>
</tr>
<tr>
<td>83622 Studio: Fashion Illustration Fundamentals 1 6cp</td>
<td>83721 Studio: Fashion Illustration Exploration 6cp</td>
</tr>
<tr>
<td>85503 Design Thinking 6cp</td>
<td>Select 6 credit points of electives 6cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>83231 Fashion Cultures 6cp</td>
<td>83722 Studio: Body Mapping 6cp</td>
</tr>
<tr>
<td>83882 Foundations in Patternmaking and Construction 2 6cp</td>
<td>83723 Textile Lab: New Technologies 6cp</td>
</tr>
<tr>
<td>83233 Fashion Illustration Fundamentals 2 6cp</td>
<td>85202 Interdisciplinary Lab A 6cp</td>
</tr>
<tr>
<td>85502 Researching Design History 6cp</td>
<td>Select 6 credit points of electives 6cp</td>
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</table>

Year 3

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>83821 Studio: Men’s Collection 12cp</td>
<td>83882 Studio: Women’s Collection 12cp</td>
</tr>
<tr>
<td>85302 Interdisciplinary Lab B 6cp</td>
<td>83823 Fashion and Textiles Professional Practice 6cp</td>
</tr>
<tr>
<td>Select 6 credit points of electives 6cp</td>
<td>Select 6 credit points of electives 6cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C10307v1 Bachelor of Design in Fashion and Textiles Bachelor of Arts in International Studies

Award(s): Bachelor of Design in Fashion and Textiles (BDesign)
Bachelor of Arts in International Studies (BA)
UAC code: 609260
CRICOS code: 07733BD
Commonwealth-supported place?: Yes
Load credit points: 240
Course EFTSL: 5
Location: City campus

Overview
The Bachelor of Design in Fashion and Textiles has been designed to enable students to create pathways of learning as they progress through the degree with a flexible and diverse approach to learning. Emphasis throughout this practice-based course is placed on value, innovation, creativity and responsible practice. Students should develop flexibility and confidence in working in and across the diverse environments that constitute contemporary practice.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

The combined degree provides additional practical skills, in particular skills that make them aware of the international contexts of design, by providing them with the opportunity to acquire knowledge of a language and culture other than English.

The course centres around design studios which integrate practice-oriented learning around specific projects, and parallel the process that professionals undertake in industry.

Professional practice is embedded in all fashion studios and builds on contemporary industry practice within both local and global markets.

Projects are developed through both individual and group work, to simulate design team environments.

The international experience enhances career options, making students more marketable to prospective employers.

**Course aims**

The course is designed to provide students with an outlook and ambition that extends beyond the university, cultivating a collaborative and global vision of design. Central to the course is the integration of theory and practice in relation to fashion and textile design. Students are expected to develop an understanding of the formation and application of their own individual design language and theoretical position in relationship to historical and contemporary contexts.

The first year introduces design principles and challenges design thinking. Within the second year the students have the opportunity to diversify according to their area of interest and strength in areas including innovation in material research, types of technologies, engaging with digital design, methods of construction, approaches to either flat patternmaking or draping.

The fashion studio and professional practice subjects in third year have been designed to extend students’ understanding of global fashion and to provide students with a choice of design projects and areas of specialisation.

A further two years of study introduce and consolidate the learning of a language and culture other than English.

**Career options**

Career options include buyer, fashion editor, fashion or textile designer, illustrator or stylist. Some students start their own business, while others work within an established company. Graduates may also continue studies at postgraduate level.

**Admission requirements**

Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 or internet based: 213-233 overall; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirements: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The course is offered on a five-year, full-time or part-time equivalent basis.

**Course completion requirements**

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<thead>
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<th>Course Name</th>
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<tbody>
<tr>
<td>CBK90005</td>
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<td>24cp</td>
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<td>STM90790</td>
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<td>240cp</td>
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**Course program**

A typical program is shown below.

**Year 1**

**Autumn semester**

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<tr>
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<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
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<td>Thinking Fashion</td>
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<tr>
<td>83621</td>
<td>Studio: Foundations in Patternmaking and</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Construction 1</td>
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</tr>
<tr>
<td>83622</td>
<td>Studio: Fashion Illustration Fundamentals 1</td>
<td>6cp</td>
</tr>
<tr>
<td>85503</td>
<td>Design Thinking</td>
<td>6cp</td>
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**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>83231</td>
<td>Fashion Cultures</td>
<td>6cp</td>
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<tr>
<td>83882</td>
<td>Foundations in Patternmaking and</td>
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<tr>
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<td>Construction 2</td>
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<td>83233</td>
<td>Fashion Illustration Fundamentals 2</td>
<td>6cp</td>
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<tr>
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<td>Researching Design History</td>
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**Year 2**

**Autumn semester**

<table>
<thead>
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<td>83343</td>
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<td>Foundations in International Studies</td>
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<td>97601</td>
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**Spring semester**

<table>
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<td>Interdisciplinary Lab A</td>
<td>6cp</td>
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<td>97602</td>
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**Year 3**

**Autumn semester**

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<td>Studio: Fashion Illustration Exploration</td>
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**Spring semester**

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<tr>
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<td>97604</td>
<td>German Language and Culture 4</td>
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**Year 4**

**Autumn semester**

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**Spring semester**

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<th>Credit Points</th>
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<tbody>
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<td>978420</td>
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**Year 5**

**Autumn semester**

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<tbody>
<tr>
<td>83621</td>
<td>Studio: Men’s Collection</td>
<td>12cp</td>
</tr>
<tr>
<td>85302</td>
<td>Interdisciplinary Lab B</td>
<td>6cp</td>
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**Spring semester**

<table>
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<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>83822</td>
<td>Studio: Women’s Collection</td>
<td>12cp</td>
</tr>
<tr>
<td>83823</td>
<td>Fashion and Textiles Professional Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Other information**

Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

Ask UTS www.ask.uts.edu.auwww.dab.uts.edu.au
C10308v1 Bachelor of Design in Visual Communication

Award(s): Bachelor of Design in Visual Communication (BDesign)  
UAC code: 602070  
CRICOS code: 077339C  
Commonwealth-supported place?: Yes  
Load credit points: 144  
Course EFTSL: 3  
Location: City campus

Overview
The Bachelor of Design in Visual Communication offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The course centres around design studios which integrate practice-oriented learning around specific projects, and parallel the process that professionals undertake in industry.

The course is structured to allow students to focus, particularly in its second half, on areas of specialisation. Throughout all stages, the course requires students to develop an understanding of their own individual design language and theoretical position in relationship to historic and contemporary contexts.

Course aims
The course aims to support and foster a creative and explorative attitude toward the design process where research and practice are consolidated in design outcomes. It cultivates a collaborative and global vision of design. Through a variety of interdisciplinary subjects, industry projects and international studies, students will develop the flexibility and confidence to work in the divergent and novel environments of contemporary visual communication practice.

The Bachelor of Design in Visual Communication offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The combined degree provides additional practical skills, in particular skills that make students aware of the international contexts of design, including image, typography, composition and hierarchy. Second year subjects engage more closely with content and the interdependencies of form and content. A contextual understanding of design as an outwardly focused activity is developed in third year, with closer studies of audience, society, ethics and industry.

Career options
Career options include design roles in graphic design, publishing, advertising, animation, film, television, exhibitions, government agencies, not-for-profit and corporate sectors.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a three-year, full-time basis. Students may study this program part time after consultation with the program director.

Course completion requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM00791 Core subjects</td>
<td>120cp</td>
</tr>
<tr>
<td>CBK90242 Sub-major/Electives (DAB)</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>144cp</td>
</tr>
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</table>

Course program
A typical program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>87631</td>
<td>Design Studio: Text and Image 1</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>87100</td>
<td>VC Project: Ways of Seeing</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>85503</td>
<td>Design Thinking</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>87632</td>
<td>Design Studio: Text and Image 2</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>87222</td>
<td>VC Project: Symbols and Systems</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>85502</td>
<td>Researching Design History</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>87731</td>
<td>Design Studio: Visual Experimentations</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>87441</td>
<td>VC Studies: Contexts of Visual Communication</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>87443</td>
<td>VC Project: Typography in Context</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>87445</td>
<td>VC Project: Visualising Experience</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>85202</td>
<td>Interdisciplinary Lab A</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
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</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>87831</td>
<td>Design Studio: Visual Communication and Strategic Design</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>85302</td>
<td>Interdisciplinary Lab B</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>87832</td>
<td>Design Studio: Design Practice</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>87665</td>
<td>VC Project: The Community</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from the Building 6 Student Centre on:  
telephone 1300 ask UTS (1300 275 887)  
+ or +61 2 9514 1222  
Ask UTS www.ask.uts.edu.au  
www.dab.uts.edu.au

C10309v1 Bachelor of Design in Visual Communication Bachelor of Arts in International Studies

Award(s): Bachelor of Design in Visual Communication (BDesign)  
Bachelor of Arts in International Studies (BA)  
UAC code: 609290  
CRICOS code: 077341J  
Commonwealth-supported place?: Yes  
Load credit points: 240  
Course EFTSL: 5  
Location: City campus

Overview
The Bachelor of Design in Visual Communication offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The Bachelor of Design in Visual Communication offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The combined degree provides additional practical skills, in particular skills that make students aware of the international contexts of design, by providing them with the opportunity to acquire knowledge of a language and culture other than English.

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The Bachelor of Design in Visual Communication offers a practice-based approach to learning visual communication. Throughout the course, the creation of new design solutions is driven by rigorous and critical exploration of methods, materiality and technology, and understanding the influence of globalisation, digitisation, complexity and interactivity.

The combined degree provides additional practical skills, in particular skills that make students aware of the international contexts of design, by providing them with the opportunity to acquire knowledge of a language and culture other than English.

The course centres around design studios which integrate practice-oriented learning around specific projects, and parallel the process that professionals undertake in industry.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
The course is structured to allow students to focus, particularly in its second half, on areas of specialisation. Throughout all stages, the course requires students to develop an understanding of their own individual design language and theoretical position in relationship to historic and contemporary contexts.

The international experience enhances career options, making students more marketable to prospective employers.

Course aims
The course aims to support and foster a creative and explorative attitude toward the design process where research and practice are consolidated in design outcomes. It cultivates a collaborative and global vision of design. Through a variety of interdisciplinary subjects, industry projects and international studios, students develop the flexibility and confidence to work in the divergent and novel environments of contemporary visual communication practice.

Throughout the degree students progress through studies and skills development in the area of form, content, context and concept. First year introduces the key formal concerns of visual communication, including image, typography, composition and hierarchy. Second year subjects engage more closely with content and the interdependencies of form and content. A contextual understanding of design as an outwardly focused activity is developed in third year, with closer studies of audience, society, ethics and industry.

A further two years of study introduce and consolidate the learning of a language and culture other than English.

Career options
Career options include design roles in graphic design, publishing, advertising, animation, film, television, exhibitions, government agencies, not-for-profit and corporate sectors.

Admission requirements
Applicants must have completed an Australian Year 12 qualification, Australian Qualifications Framework Diploma, or equivalent Australian or overseas qualification at the required level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a five-year, full-time basis. Students may study this program part time after consultation with the program director. Students spend two semesters of study at a university or other higher education institution in the country of their major.

Course completion requirements
STM9001 Core subjects  120cp
CBK90005 Country major choice  96cp
CBK90242 Sub-major/Electives (DAB)  24cp
Total 240cp

Course program
A typical program is shown below.

Year 1

Autumn semester
87631 Design Studio: Text and Image 1  12cp
87100 VC Project: Ways of Seeing  6cp
85503 Design Thinking  6cp

Spring semester
87632 Design Studio: Text and Image 2  12cp
87222 VC Project: Symbols and Systems  6cp
85502 Researching Design History  6cp

Year 2

Autumn semester
976001 Foundations in International Studies  8cp
97601 German Language and Culture 1  8cp
87441 VC Studies: Contexts of Visual Communication  6cp
Select 6 credit points of electives  6cp

Spring semester
97602 German Language and Culture 2  8cp
87443 VC Project: Typograhy in Context  6cp
87445 VC Project: Visualising Experience  6cp
Select 6 credit points of electives  6cp

Year 3

Autumn semester
87831 Design Studio: Visual Communication and Strategic Design  12cp
97603 German Language and Culture 3  8cp
Select 6 credit points of electives  6cp

Spring semester
97604 German Language and Culture 4  8cp
976421 Contemporary Germany  8cp
85202 Interdisciplinary Lab A  6cp
Select 6 credit points of electives  6cp

Year 4

Autumn semester
977420 In-country Study 1: Germany  24cp

Spring semester
978420 In-country Study 2: Germany  24cp

Year 5

Autumn semester
87731 Design Studio: Visual Experimentations  12cp
85302 Interdisciplinary Lab B  6cp

Spring semester
87832 Design Studio: Design Practice  12cp
87665 VC Project: The Community  6cp

Other information
Further information on the visual communication component is available from the Building 6 Student Centre on:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

Further information on the international studies component is available from the Building 1 Student Centre on:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au
www.internationalstudies.uts.edu.au
C20049V1 Diploma in Information Technology Professional Practice

Overview
The Diploma in Information Technology Professional Practice is not a separate course in its own right but is taken in conjunction with UTS: Information Technology's undergraduate bachelor programs. Students must obtain suitable employment and work for a minimum of nine months full time and must undertake the academic subjects related to their industrial training. International students can work full-time for the duration of the diploma.

The diploma is extremely beneficial for students relating their final year of coursework to the practical needs of the IT industry. This experience is invaluable when applying for graduate career positions.

Course aims
The course aims to develop students' technical and generic work skills in a workplace environment. It also enables students to develop lifelong learning skills and gain a better understanding of the relationship between theory and practice.

Career options
For career options, refer to the main degree undertaken. The diploma increases students' employability by providing at least nine months' work experience before graduation. Many students continue working with their industrial training employer and finish their studies part time.

This course is normally available to students who are currently enrolled in the Bachelor of Science in Information Technology (C10148) (see page 193), Bachelor of Science in Information Technology Bachelor of Arts in International Studies (C10239) (see page 238), Bachelor of Business Bachelor of Science in Information Technology (C110219) (see page 226), Bachelor of Science in Information Technology Bachelor of Laws (C10245) (see page 252), Bachelor of Mathematics and Computing (C10158) (see page 201), Bachelor of Science in Games Development (C10229) (see page 235), Graduate Diploma of Interactive Multimedia (C07078) (see page 412) and Master of Interactive Multimedia (C04158) (see page 333).

Students must have progressed to a particular stage of their program of study and completed certain subject requirements before being admitted concurrently to the Diploma in Information Technology Professional Practice. Students who have completed all subjects in their course may still enrol in the diploma, but cannot graduate from their course until they finish the diploma.

Non-UTS students who hold an ACS Foundation work integrated learning scholarship may also apply for the Diploma in Information Technology Professional Practice. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0, or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21, or DEEP: C, or PTE: 50-57, or CAE: 52-57 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Application closing dates are:
• 25 February 2013 (for Autumn semester 2013)
• 29 July 2013 (for Spring semester 2013).

Local students
Students must complete the Diploma in Information Technology Professional Practice direct application form available at: http://datasearch2.uts.edu.au/feit/it/undergraduate/experience/

International students
Students must complete the international student undergraduate application form available from UTS International at: www.uts.edu.au/international/prospective/studying/apply

Course duration and attendance
Students are required to obtain approved, full-time employment within the IT industry for a minimum of nine months and complete two semesters of academic study.

Students are required to notify the faculty of any changes to their circumstances that affect their industrial training, including notification of the start and finish dates of their industrial training.

Course structure
In addition to undertaking industrial training, students are required to complete 12 credit points comprising the two industrial training subjects below.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31136</td>
<td>Preparation for and Review of IT Experience</td>
<td>6cp</td>
</tr>
<tr>
<td>31137</td>
<td>IT Experience 1</td>
<td>0cp</td>
</tr>
<tr>
<td>31138</td>
<td>Review of IT Experience</td>
<td>6cp</td>
</tr>
<tr>
<td>31139</td>
<td>IT Experience 2</td>
<td>0cp</td>
</tr>
</tbody>
</table>

Total 12cp

Course program
The course program is shown below.

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31136</td>
<td>Preparation for and Review of IT Experience</td>
<td>6cp</td>
</tr>
<tr>
<td>31137</td>
<td>IT Experience 1</td>
<td>0cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31138</td>
<td>Review of IT Experience</td>
<td>6cp</td>
</tr>
<tr>
<td>31139</td>
<td>IT Experience 2</td>
<td>0cp</td>
</tr>
</tbody>
</table>

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.auLocal students
POSTGRADUATE COURSEWORK COURSES

C04006v6 Master of Project Management

Award(s): Master of Project Management (MPM)
UAC code: 942103 (Autumn semester), 945103 (Spring semester)
CRICOS code: 00199J
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
With close industry contact, the course is delivered through block workshops designed to emulate project environments, giving students the opportunity to directly develop their ability to manage real projects. The program is rigorous, and is globally recognised for its tradition of excellence. The UTS program was the first Australian program to be accredited by the Project Management Institute’s (PMI) Global Accreditation Centre. The foundation subjects are compatible with the structures used by the PMI and Australian Institute of Project Management (AIPM) to certify practitioners.

This program provides practice-based knowledge, skills and tools for the delivery of different types and sizes of projects and programs across all industry sectors, underpinned by theory and research. At the forefront of industry trends, the UTS program incorporates project complexity, program management, governance, reflective practice and leadership. Drawing on areas of excellence from across UTS, students may choose to study a sub-major in business, IT, engineering or construction (from 2013), or undertake a pure project management postgraduate degree.

Course aims
Successful graduates of the course can:
• select and critically apply relevant theory to practice
• develop and apply appropriate project management methodologies to suit different project and organisational contexts
• demonstrate application of reflective practice
• communicate in a variety of forms across culturally diverse project and organisational contexts
• demonstrate the capacity to take a leadership role in project, program and portfolio management
• demonstrate advanced-level skills in managing relationships between key stakeholders in a variety of contexts both in Australia and internationally
• exhibit an understanding of the application of ethical practice to project governance in a variety of settings both in Australia and internationally
• select and apply creative problem-solving skills to all phases of the project life cycle
• apply critical thinking, analytical and research skills to a range of project and program management contexts
• understand, select from and apply a range of systems thinking approaches to a variety of project and organisational contexts.

Career options
The course is highly regarded by industry as providing in-demand, 'professionally excellent' graduates. Its focus on leadership, program management and governance increases the employability of graduates at senior levels in many local and international industries, including banking and finance, construction and engineering, event management, government, health and IT.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants also require six months industry experience if they have not completed the Graduate Diploma in Project Management (C07004) (see page 402).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Exemptions of up to 24 credit points may be given for equivalent prior learning. Applicants with a four-year degree in a related field of study may be given up to 24 credit points of exemptions.

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis. Because the intensive workshops are widely spaced throughout the year, many students choose to accelerate the part-time master’s program and complete it within two years.

Course structure
Students choose 72 credit points from a list of compulsory and elective subjects.

Course completion requirements
CBK90603 PM Foundation 24cp
CBK90860 PM advanced 48cp
Total 72cp

Course program
A typical course program is shown below.

No sub-major

Year 1

Autumn semester
Select 24 credit points from the following options: 24cp
15312 Communication and Critical Thinking 6cp
15313 Project Procurement and Risk Management 6cp
15315 Project Management Principles 6cp
15316 Project Time, Cost and Quality Management 6cp
15326 Project Management Practicum 6cp
15463 The Research Process 6cp
15462 Introduction to Research 6cp
15463 The Research Process 6cp
15347 The Project Organisation: A New Organisational Model 6cp
15338 Realising Project Benefits 6cp
15339 Project Implementation 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
15326 Project Management Practicum 6cp
15327 Managing Project Complexity 6cp
15330 Program Management 6cp
15336 Systems Thinking for Managers 6cp
15346 Governance and Leadership of Project Management 6cp
15347 The Project Organisation: A New Organisational Model 6cp
15356 Reflective Project Practice 6cp

Spring semester
Select 24 credit points from the following options: 24cp
15338 Realising Project Benefits 6cp
15339 Project Implementation 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
15326 Project Management Practicum 6cp
15327 Managing Project Complexity 6cp
15330 Program Management 6cp
15336 Systems Thinking for Managers 6cp
15346 Governance and Leadership of Project Management 6cp
15347 The Project Organisation: A New Organisational Model 6cp
15356 Reflective Project Practice 6cp
15463 The Research Process 6cp

Total 72cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course aims

Graduates of this course understand the nature and methods of planning and urban management and the interdependency of various urban policy fields, agencies and institutions which enable sound urban outcomes.

They can responsibly participate in planning debates, apply sound and appropriate urban design principles, communicate at a superior level and constructively reflect on planning methods and practice.

Graduates also recognise and develop ethical, just and professional methodological approaches and practices.

Career options

Skills in community planning, development control, infrastructure management, planning and environmental law, and strategic planning open up careers in government departments and agencies, local government, major development companies and private consulting firms.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

An appropriate first degree can include the Graduate Diploma in Planning (C07002) (see page 401), or a bachelor's degree in planning, architecture, geography, economics, property economics, commerce, law, engineering or building. Other bachelor's degrees may also be considered.

Work experience is considered relevant if it includes the holding of a responsible position related to the planning or administration of land or design, financing, regulation, construction or management of buildings or infrastructure.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis.

All lectures, seminars, workshops and site visits are held during four full-time weeks spread through the year. This facilitates interaction and teamwork, and meets the needs of busy professionals and those living outside Sydney.

In the part-time program, students attend 10 week-long sessions in the first two-and-a-half years and the equivalent of two weeks in the last half year.

Full-time students attend six week-long sessions in each year of the two years of the course in conjunction with part-time students. Between attendance weeks they may attend additional classes and seminars.

Course structure

The course requires the completion of 72 credit points.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90502 Core subjects (Property and Planning)</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90503 Level 2 core subjects (Planning)</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90597 Options (Planning) Level 3</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>72cp</td>
</tr>
</tbody>
</table>

Course program

The examples below show full-time and part-time programs for students choosing the combined or major project options.
Full time, minor project and electives option

Year 1

Autumn semester
15142 Introduction to Property and Planning 6cp
15146 Sustainable Urban Development 6cp
15222 Urban Design 6cp
17700 Planning and Environmental Law 6cp

Spring semester
15241 Urban Economics and Finance 6cp
15143 Group Project A: Urban Renewal 6cp
15144 Group Project B: Greenfields Development 6cp
15145 Development Negotiation 6cp

Year 2

Autumn semester
15301 Planning Theory and Decision Making 6cp
15345 Minor Project 6cp
Select 12 credit points of electives 12cp

Full time, major project option

Year 1

Autumn semester
15142 Introduction to Property and Planning 6cp
15146 Sustainable Urban Development 6cp
15222 Urban Design 6cp
17700 Planning and Environmental Law 6cp

Spring semester
15241 Urban Economics and Finance 6cp
15143 Group Project A: Urban Renewal 6cp
15144 Group Project B: Greenfields Development 6cp
15145 Development Negotiation 6cp

Year 2

Autumn semester
15301 Planning Theory and Decision Making 6cp
15302 Major Project: Methods 6cp
15303 Major Project: Analysis 6cp
15304 Major Project: Outcomes 6cp

Part time, minor project and electives option

Year 1

Autumn semester
15142 Introduction to Property and Planning 6cp
15146 Sustainable Urban Development 6cp
15222 Urban Design 6cp
17700 Planning and Environmental Law 6cp

Spring semester
15222 Urban Design 6cp
17700 Planning and Environmental Law 6cp

Year 2

Autumn semester
15241 Urban Economics and Finance 6cp
15144 Group Project B: Greenfields Development 6cp
15145 Development Negotiation 6cp

Year 3

Autumn semester
15301 Planning Theory and Decision Making 6cp
15345 Minor Project 6cp

Spring semester
Select 12 credit points of electives 12cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Property and Planning (C11001) (see page 421), the Graduate Diploma in Planning (C07002) (see page 401) and the Master of Planning.

Professional recognition
This course meets the educational requirements for corporate membership of the Planning Institute of Australia.

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C04008v5 Master of Property Development
Award(s): Master of Property Development (MProDev)
UAC code: 942100 (Autumn semester), 945100 (Spring semester)
CRICOS code: 019745C
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
This course is designed for both property practitioners and graduates in other fields who wish to extend their qualifications and expertise in property development and management. Graduates have a commitment to professionalism in the property sector.
This course is for property professionals who want to upgrade their qualifications or expertise or for those who wish to enter the property industry. Property development and planning students study a common first year, which develops an understanding of how to balance private and public interests in urban development.

Course aims
The course provides a thorough and advanced grounding in all aspects of the property development process, markets and institutions, including the political, managerial, legal and physical systems that contribute to the effective management and development of property assets, property investment portfolios and development proposals.
It is designed to provide valuers and other property practitioners with opportunities to enhance their qualifications and expertise and provide professionals from other fields with an understanding of property development and investment issues and techniques.

Career options
Career options include positions in banking and government instrumentalities, finance, management and development, and property investment.
Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

An appropriate first degree includes the Graduate Diploma in Property Development (C06006) (see page 385).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis. The course features intensive block attendance patterns.

Course completion requirements

STM00502 Core subjects (Property and Planning) 24cp
CBK90622 Property options (PG) 24cp
STM00564 Core subjects 24cp
Total 72cp

Course program

The example programs below are for a student commencing in Autumn or Spring semester and undertaking the course full time.

Full time, Autumn commencing

Year 1

Autumn semester

15142 Introduction to Property and Planning 6cp
Select one of the following:
12535 Valuation Application 6cp
15222 Urban Design 6cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp

Spring semester

17704 Property Development Finance 6cp
15143 Group Project A: Urban Renewal 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
17553 Construction Cost Planning 6cp
17772 Commercial Retail Property Management 6cp
17774 Green Building Evaluation 6cp
12535 Valuation Application 6cp
15222 Urban Design 6cp

Year 2

Autumn semester

12518 Property Transactions 6cp
17518 Advanced Property Development 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
171200 Conservation and Heritage 6cp
17551 Property Market and Risk Analysis 6cp
17703 Property Taxation 6cp

Full time, Spring commencing

Year 1

Spring semester

15142 Introduction to Property and Planning 6cp
Select one of the following:
12535 Valuation Application 6cp
15222 Urban Design 6cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp

Year 2

Autumn semester

12518 Property Transactions 6cp
17518 Advanced Property Development 6cp
15143 Group Project A: Urban Renewal 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
171200 Conservation and Heritage 6cp
17551 Property Market and Risk Analysis 6cp
17703 Property Taxation 6cp

Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
17553 Construction Cost Planning 6cp
17772 Commercial Retail Property Management 6cp
17774 Green Building Evaluation 6cp
12535 Valuation Application 6cp
Spring semester

17704 Property Development Finance 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
17553 Construction Cost Planning 6cp
17772 Commercial Retail Property Management 6cp
17774 Green Building Evaluation 6cp
12535 Valuation Application 6cp

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Property and Planning (C11001) (see page 421), the Graduate Diploma in Property Development (C06006) (see page 385) and the Master of Property Development.

Other information

Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dbt.uts.edu.au

C04018v5 Master of Business Administration

Award(s): Master of Business Administration (MBA)
CRICOS code: 025004A
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview

The UTS MBA is distinguished from the competition by its practical, vocational orientation and by the open architecture of the course design. All MBA subjects are approved by an industry board that insists on ‘relevance to workplace’ as a pre-eminent subject design principle. The MBA provides knowledge and skills that are essential for superior management performance.

The course provides unparalleled program flexibility. Students design their MBA to match their employment aspirations. A wide range of specialist skills is also introduced through a choice of majors and sub-majors. The teaching staff are drawn from among the finest researchers and university educators around the world, keeping students abreast of current trends and focusing on the global picture.

Course aims

- General management skills develop expertise in strategic thinking, critical analysis, developing and implementing business plans, decision-making under uncertainty, understanding organisational dynamics, motivating others, effective communication, leadership and promoting change in dynamic environments.
- Functional skills develop competency in a number of key disciplines including accounting, finance, marketing and human resources management.
- Specialist skills are introduced in areas such as international marketing, human resource management, management in the public, private and international spheres, tourism, sport, arts management, engineering management and information technology.

Career options

The MBA is the most recognised and most transportable postgraduate degree. Students in the MBA know that to realise their full career potential, additional managerial skills and credentials are essential.
Personal investment in a demanding MBA program that is recognised for both intellectual rigour and practical application of knowledge will accelerate students' career progression or introduce new career pathways.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants also require:

- a minimum grade point average (GPA) of 2.75 out of 4 with less than 10 per cent fail grades, or
- a Graduate Management Admission Test (GMAT) overall minimum score of 550, or
- a minimum of at least four years' relevant work experience.

Applicants with a relevant graduate certificate must have completed it with at least a credit average. Further information is available at: www.gsb.uts.edu.au/student/gmat

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Students may be granted a maximum of 10 subject exemptions in the MBA, of which four core subjects may be approved from prior undergraduate study.

Further information is available at: www.gsb.uts.edu.au/student/rpl

Course duration and attendance

The MBA is normally completed in two years of full-time or four years of part-time study. Completion time may be accelerated by undertaking subjects in intensive mode during Summer session. Classes for core subjects are held during the day as well as in the evening.

Course structure

The course comprises 96 credit points, made up of eight compulsory core subjects (totalling 48 credit points) and eight elective subjects (totalling 48 credit points).

Electives can be taken in one of three ways: as one major (48 credit points), as two sub-majors (24 credit points each), or as one sub-major (24 credit points) plus 24 credit points of mixed electives.

Course completion requirements

STM90345 Core subjects 48cp

CBK90214 Major/Two sub-majors/Sub-major + four electives 48cp

Total 96cp

Course program

The lists of core subjects and available majors and sub-majors are provided below.

Core subjects

21800 Management and Organisations 6cp
22747 Accounting for Managerial Decisions 6cp
23706 Economics for Management 6cp
21844 Managing Work and People 6cp
25742 Financial Management 6cp
24734 Marketing Management 6cp
21715 Strategic Management 6cp
21878 Organisational Dialogue: Theory and Practice 6cp

List of majors

MAJ08049 Accounting Information Systems 48cp
MAJ08934 Accounting and Finance 48cp
MAJ02444 Information Technology 48cp
MAJ09362 Business Law 48cp
MAJ08938 Technology Management 48cp
MAJ08940 Finance 48cp
MAJ08476 Management 48cp
MAJ08020 Human Resource Management 48cp
MAJ08941 International Business 48cp
MAJ08480 Marketing 48cp
MAJ08483 Professional Accounting 48cp

List of sub-majors

SMJ08098 Accounting Information Systems 24cp
SMJ08071 Arts Management 24cp
SMJ02038 Information Technology 24cp
SMJ09037 Business Law 24cp
SMJ08209 Community Management 24cp
SMJ08075 Engineering Management 24cp
SMJ08147 Finance 24cp
SMJ08066 Human Resources Management 24cp
SMJ08148 International Business 24cp
SMJ10028 International Exchange 24cp
SMJ08208 Management 24cp
SMJ08084 Marketing 24cp
SMJ08111 Marketing Research 24cp
SMJ08086 Project Management 24cp
SMJ08153 Public Relations 24cp
SMJ08155 Sport Management 24cp
SMJ08038 Strategic Management 24cp
SMJ08205 Strategic Marketing 24cp
SMJ08156 Tourism Management 24cp
SMJ08037 Operations and Supply Chain 24cp
SMJ08210 Value Creation in Services 24cp
SMJ08213 Event Management 24cp

Articulation with UTS courses

While the MBA is offered as a stand-alone qualification, it is also part of an articulated program of study comprising the Graduate Certificate in Business Administration (CI1008) (see page 422), the Graduate Diploma in Business Administration (CD0009) (see page 386), and the Master of Business Administration (MBA). This enables students who satisfactorily complete the Graduate Certificate in Business Administration or the Graduate Diploma in Business Administration to apply for entry to the MBA.

Where a student articulates from one level of study to another, only one testamur is issued.

Professional recognition

CPA Australia; Institute of Chartered Accountants in Australia (ICAA); Australian Human Resources Institute; Institute of Public Accountants (IPA)

The MBA with Professional Accounting major meets the formal academic requirements for associate membership of CPA Australia and the ICAA. In order to meet the educational requirements for membership of CPA Australia and the ICAA, students undertaking the Professional Accounting major must also complete an introductory law subject. Students who have not previously completed an undergraduate law subject by examination must study 79708 Contemporary Business Law in place of 21844 Managing Work and People.

Students completing this degree with a major in human resource management are eligible to apply to the Australian Human Resources Institute (AHRI) for the professional member (MAHRI) status. Students completing this degree with a major in finance are eligible to apply for associate membership at the Financial Services Institute of Australasia (FINSIA) and are also eligible to apply for Certified Finance and Treasury Professional at the Finance and Treasury Association (FTA).

Other information

Further information is available from UTS: Business on:

- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C04031v6 Executive Master of Business Administration
Award(s): Executive Master of Business Administration (MBA) Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 3
Location: City campus

Note(s)
This course is not offered to international students.

Overview
The Executive MBA is designed as a general management qualification for ambitious individuals with considerable work experience who are looking to further develop their business and strategic leadership skills. The overarching goal of the course is to produce graduates who can operate a business function, unit or organisation by building students’ capabilities in technical, professional and interpersonal skills.

The Executive MBA curriculum is strongly experientially oriented and provides students with decision-making experiences that emulate the real world of business. The requirements of professional bodies; recent research and scholarship data on successful graduates; information from employers and advisory committees; and industry groups have informed the attributes and learning goals. The course is structured in such a way that students can choose to progress through the degree in a group. The cohort model is designed to foster a sense of union, facilitate networking and encourage cooperative relationships with a focus on leadership and group dynamics.

Course aims
The aim of the Executive MBA degree is to develop students’ business acumen through an enhanced capacity for integrity, judgment and intuition. Executive MBA students develop advanced competency in a number of key disciplines including accounting, economics, finance, marketing and strategic management. The learning goals of the degree are designed to meet the needs of today’s rapidly changing enterprises including areas such as electronic business, finance, banking, corporate accounting, marketing, operations management, employment relations, management in the public, private and international spheres, information technology, engineering, and event, tourism, sport, arts and leisure management. The focus is on developing specific skills including the ability to integrate accounting, finance, marketing and management skills for progressive solutions and sound management decisions; capacity for analysing and synthesizing complex information and knowledge for tactical and strategic business decisions; effective leadership and teamwork skills; and designing innovative business models and strategies that adhere to the principles of responsible corporate governance and social responsibility.

Career options
Career options include senior general management roles in business or business unit manager, business planning, business strategist, and general management consultant.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants also require five years’ relevant work experience or a UTS Graduate Certificate in Executive Business Administration (C11208) (see page 457), with a credit average. Applicants may be required to attend an interview as part of the admission process.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students in the Executive MBA are not granted exemptions for any prior studies.

Course duration and attendance
The course is expected to be completed in two years of part-time study. Teaching is conducted in sequential eight-week blocks. The first and last (capstone) subjects are taught in residence.

Course structure
The course comprises 96 credit points, made up of nine core subjects and three elective subjects (all subjects are 8 credit points each). Students in this course are taught separately from other graduate students. Two core subjects are studied in ‘residence mode’, and the elective subjects include a study tour of leading European or North American business schools and industry visits (restricted numbers and conditions apply).

Course completion requirements
STM90344 Core subjects
27800 Applied Leadership and Strategy 8cp
25841 Decision Making Tools 8cp
21875 Organisational Behaviour in Practice 8cp
22814 Accounting Information for Managers 8cp
23845 Managerial Economics 8cp
21874 Corporate Governance and Sustainability 8cp
25846 Managerial Finance 8cp
24800 Managerial Marketing 8cp
21873 Global Business Strategies 8cp

Select 24 credit points from the following options: 24cp
21872 Organisational Analysis 8cp
21869 Innovation and Entrepreneurship 8cp
21870 Strategic Human Resource Management 8cp
21871 Operations and Value Chain Strategy 8cp
22816 Financial Analysis and Business Valuations 8cp
22815 Business Decisions and Models 8cp
24808 Advanced Marketing Strategies 8cp
24807 Marketing Strategy in Practice 8cp
25844 Managerial Corporate Finance 8cp
26800 International Business Consulting 8cp

Articulation with UTS courses
This course is part of an articulated program comprising the Executive Master of Business Administration (EMBA) and the Graduate Certificate in Executive Business Administration (C11208) (see page 457).

Transfer is not permitted from any existing Graduate School of Business program to the EMBA. Transfer out of the EMBA is only permitted in extraordinary circumstances at the discretion of the Head, Graduate School of Business.

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- website www.business.uts.edu.au/pg/

C04037v5 Master of Business in Accounting Information Systems
Award(s): Master of Business in Accounting Information Systems (MBus) CRICOS code: 09446J
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Business in Accounting Information Systems provides advanced-level study in a range of contemporary accounting issues. The business project offers students the option of applying their learning to a real-world problem for their employer or another organisation.
Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTAS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions based on credit recognition, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
The course totals 72 credit points of study, made up of 12 compulsory core subjects.

Course completion requirements
STM90709 Core subjects (Accounting Information Systems) 72cp

Course program
The core subject and stream options are shown below.

Core subjects
22747 Accounting for Managerial Decisions 6cp
22798 Accounting Information Systems 6cp
22799 Accounting and ERP 6cp
22766 Assurance for Enterprise Systems 6cp
22776 Business Information Systems 6cp
22787 Business Project Management 6cp
22753 Cost Management and Analysis 6cp
22783 Business Intelligence 2: Advanced Planning 6cp
22797 Business Intelligence 1: Advanced Analysis 6cp
22705 Management Planning and Control 6cp
25742 Financial Management 6cp
22782 Business Process Integration with ERP 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting Information Systems (C11017) (see page 423) and the Master of Business in Accounting Information Systems.

Professional recognition
The Master of Business in Accounting Information Systems is not recognised by CPA Australia as meeting the membership entry requirements for applicants who do not have a recognised undergraduate degree. Such applicants should enrol in the MBA (Professional Accounting major) (CO4018) (see page 303). However, applicants with a recognised undergraduate degree can include CPA Australia accredited postgraduate subjects in their Master of Business in Accounting Information Systems program in order to meet the accounting studies requirements for CPA Australia membership. It is recommended that applicants obtain an assessment from CPA Australia of the subjects they are required to complete before enrolling in their program and then discuss this assessment with the course coordinator.

Assessment forms are available from the CPA Australia website, under Membership, at: www.cpaaustralia.com.au or contact: NSW Office of CPA Australia telephone +61 2 9375 6200

Other information
Further information is available from UTS: Business on: telephone +61 2 9514 3660 email business@uts.edu.au www.business.uts.edu.au/pg/

C04038v6 Master of Business in Accounting and Finance
Award(s): Master of Business in Accounting and Finance (MBus)
CRICOS code: 03657F
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Business in Accounting and Finance provides advanced-level study in a range of contemporary accounting and finance issues. The core subjects chosen from both accounting and finance are designed to offer a balanced coverage of both disciplines.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTAS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions based on credit recognition, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
The course totals 72 credit points of study, made up of 12 compulsory core subjects.

Course completion requirements
STM90709 Core subjects (Accounting Information Systems) 72cp

Course program
The core subject and stream options are shown below.

Core subjects
22747 Accounting for Managerial Decisions 6cp
22798 Accounting Information Systems 6cp
22799 Accounting and ERP 6cp
22766 Assurance for Enterprise Systems 6cp
22776 Business Information Systems 6cp
22787 Business Project Management 6cp
22753 Cost Management and Analysis 6cp
22783 Business Intelligence 2: Advanced Planning 6cp
22797 Business Intelligence 1: Advanced Analysis 6cp
22705 Management Planning and Control 6cp
25742 Financial Management 6cp
22782 Business Process Integration with ERP 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting Information Systems (C11017) (see page 423) and the Master of Business in Accounting Information Systems.

Professional recognition
The Master of Business in Accounting Information Systems is not recognised by CPA Australia as meeting the membership entry requirements for applicants who do not have a recognised undergraduate degree. Such applicants should enrol in the MBA (Professional Accounting major) (CO4018) (see page 303). However, applicants with a recognised undergraduate degree can include CPA Australia accredited postgraduate subjects in their Master of Business in Accounting Information Systems program in order to meet the accounting studies requirements for CPA Australia membership. It is recommended that applicants obtain an assessment from CPA Australia of the subjects they are required to complete before enrolling in their program and then discuss this assessment with the course coordinator.

Assessment forms are available from the CPA Australia website, under Membership, at: www.cpaaustralia.com.au or contact: NSW Office of CPA Australia telephone +61 2 9375 6200

Other information
Further information is available from UTS: Business on: telephone +61 2 9514 3660 email business@uts.edu.au www.business.uts.edu.au/pg/
Course completion requirements

22754 Corporate Accounting 6cp
25731 International Finance 6cp
25721 Investment Management 6cp
79708 Contemporary Business Law 6cp
22747 Accounting for Managerial Decisions 6cp
23706 Economics for Management 6cp
25742 Financial Management 6cp
22743 Business Valuation and Financial Analysis 6cp
25741 Capital Markets 6cp
25765 Corporate Finance 6cp
22748 Financial Reporting and Analysis 6cp
22730 Auditing and Assurance Services 6cp
Total 72cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting and Finance (C11015) (see page 423), the Graduate Diploma in Accounting and Finance (C107012) (see page 402) and the Master of Business in Accounting and Finance.

Professional recognition
This course meets the educational requirements of membership at the level of Certified Finance and Treasury Professional (CFTP), awarded by the Finance and Treasury Association.

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/

C04048v5 Master of Business in Finance
Award(s): Master of Business in Finance (MBus)
CRICOS code: 036581K
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Business in Finance provides a comprehensive range of skills and expertise expected of leading practitioners in the banking and finance sectors.
The Finance program provides participants with the opportunity to acquire knowledge of finance theory and techniques for leading-edge professional practice purposes.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants with a relevant graduate certificate must have completed it with at least a credit average.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions based on credit recognition, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
The course comprises 72 credit points, made up of nine core subjects (totalling 54 credit points) plus elective subjects (totalling 18 credit points).

Course completion requirements
CBK90381 Elective choice (Finance) 18cp
STM90366 Core subjects (Finance) 54cp
Total 72cp

Course program
The list of core subjects is shown below, followed by the list of available electives.
23706 Economics for Management 6cp
22747 Accounting for Managerial Decisions 6cp
25742 Financial Management 6cp
25741 Capital Markets 6cp
25705 Financial Modelling and Forecasting 6cp
25721 Investment Management 6cp
25765 Corporate Finance 6cp
25731 International Finance 6cp
25743 Corporate Financial Analysis 6cp
Select 18 credit points from the following options:  18cp
25728 Bond Portfolio Management 6cp
25729 Applied Portfolio Management 6cp
25732 Venture Capital and Private Equity: Theory and Practice 6cp
25751 Financial Institution Management 6cp
25752 Financial Institution Lending 6cp
25762 Synthetic Financial Products 6cp
25763 Corporate Treasury Management 6cp
25764 Venture Capital Finance 3cp
25796 Personal Wealth Management 6cp
25807 Mergers and Acquisitions 3cp
25809 Technical Analysis 3cp
25812 Fundraising in International Markets 3cp
25818 Real Estate Finance and Investment 3cp
25824 Project Financing 3cp
77947 Companies and Securities Law 6cp
25797 Real Estate Investment Trusts 3cp
25798 Ethics and Professional Standards in Finance 3cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Finance (C11027) (see page 425), the Graduate Diploma in Finance (C107021) (see page 404) and the Master of Business in Finance.

Professional recognition
The Master of Business in Finance covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered. Completion of the Master of Business in Finance meets the education requirements at the level of Certified Finance and Treasury Professional (CFTP). It also meets the educational requirements at the level of Senior Associate (SA Fin), in conjunction with work experience, at the Financial Services Institute of Australasia (FINSLIA). The Master of Business in Finance has also been awarded postgraduate partnership status by CFA Institute (USA). The degree’s curriculum is closely tied to global professional practice and is well suited to students preparing to sit for CFA (Chartered Financial Analyst) program examinations.

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/
C04052v3 Master of Quantitative Finance

Award[s]: Master of Quantitative Finance (MQF)
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Notes
This course is not offered to international students.

Overview
The Master of Quantitative Finance provides the full gamut of specialised quantitative finance skills and development of professional competency required to be a quantitative finance specialist performing at the cutting edge of the discipline.

Participants have the opportunity to see the application of quantitative finance to advanced financial instruments, an integrated approach to risk management and how to implement quantitative finance strategies.

Course aims
The Quantitative Finance program provides the opportunity to acquire the detailed specialised knowledge and the professional competency required to work as a quantitative finance analyst in the modern finance industry.

Career options
Career options for graduates include positions as quantitative analysts, risk management analysts, quantitative structures, quantitative developers, forecasters, traders, investment analysts and financial engineers across investment banks, trading banks, hedge funds, investment management companies, consulting companies, energy and mining companies, regulatory bodies and government organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in finance or have a strong mathematical background. Entry to the course is at the discretion of the course director.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course duration is three years of part-time study.

Course structure
The course comprises 72 credit points of core subjects.

Course completion requirements
STM90317 Core subjects (Quantitative Finance) 72cp

Course program
Students complete the following subjects.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>25832</td>
<td>Financial Markets Instruments</td>
<td>6cp</td>
</tr>
<tr>
<td>25834</td>
<td>Portfolio Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>25837</td>
<td>Financial Econometrics</td>
<td>6cp</td>
</tr>
<tr>
<td>25849</td>
<td>Financial Risk Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25850</td>
<td>Credit Risk</td>
<td>6cp</td>
</tr>
<tr>
<td>25851</td>
<td>Mathematical Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>25852</td>
<td>Numerical Analysis for Quantitative Finance</td>
<td>6cp</td>
</tr>
</tbody>
</table>

25853 Computational Methods and Model Implementation 6cp
25854 Statistical Methods for Quantitative Finance 6cp
25855 Fundamentals of Derivative Security Pricing 6cp
25856 Probability Theory and Stochastic Processes 6cp
25857 Interest Rate Modelling 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Diploma in Quantitative Finance (C07023) (see page 405) and the Master of Quantitative Finance.

Other information
Further information is available from UTS: Business on: telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/

C04067v6 Master of Business in Marketing

Award[s]: Master of Business in Marketing (MBus)
CRICOS code: 036583G
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Business in Marketing provides the opportunity for students to extend their knowledge in the areas of communications, sales management, the development and introduction of new products, business-to-business marketing, technology and marketing, as well as the legal constraints on and the ethical implications of marketing in Australia.

The marketing program provides contemporary theoretical marketing knowledge and the practical skills required for superior performance in Australian and international markets.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course is one-and-a-half years of full-time or three years of part-time study.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Course structure
The course totals 72 credit points and consists of a combination of core subjects, specialised streams and elective subjects.

Course completion requirements
STM00721 Core subjects (Marketing) 30cp
CBK90635 Marketing streams 24cp
CBK90636 Elective (Marketing PG) 18cp
Total 72cp

Course program
The course program is shown below.
24710 Buyer Behaviour 6cp
24734 Marketing Management 6cp
24730 Marketing Strategy 6cp
24720 Marketing Research 6cp
24790 Business Project: Marketing 6cp
CBK90636 Elective (Marketing PG) 18cp
Select 24 credit points from the following options: 24cp
STM00717 Marketing Management 24cp
STM00718 Marketing Strategy 24cp
STM00719 Marketing Research 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Marketing (C11039) (see page 428), the Graduate Diploma in Marketing (C07031) (see page 407) and the Master of Business in Marketing.

Professional recognition
Completion of this course meets the educational requirements for Professional Postgraduate Diploma in Marketing entry point to the Chartered Institute of Marketing (CIM).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9541 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C04085v2 Master of Engineering Management
Award(s): Master of Engineering Management (MEM)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: Hong Kong

Note(s)
This course is only offered offshore. It is available in Beijing. The language of tuition is Modern Standard Chinese.
It is the Chinese language version of the Master of Engineering Management (C04094) (see page 314). It is offered through the Hong Kong Management Association.

Overview
The Master of Engineering Management (MEM) is the ideal course for engineers, technical specialists and others wishing to expand their knowledge and experience.

Career options
Engineering and applied science jobs are becoming increasingly multidisciplinary. Knowledge and skills in technical management gained from completing the MEM can assist in obtaining a high-quality engineering or engineering management position.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course duration is two years of part-time study if two subjects are taken per teaching period. This time can be reduced if additional subjects are studied in the January to March semester. The program is structured for weekend and distance mode attendance.

Course structure
The course requires 48 credit points of study. A minimum of 36 credit points (the six subjects listed below) must be completed from the list of MEM core subjects. The remaining 12 credit points are completed from two postgraduate subjects offered at Wuhan University in China.

Course completion requirements
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49006 Leadership and Responsibility 6cp
49008 Engineering Financial Control 6cp
49009 Quality Planning and Analysis 6cp

Total 48cp

Course program
The list of available core subjects is shown below.
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49006 Leadership and Responsibility 6cp
49008 Engineering Financial Control 6cp
49009 Quality Planning and Analysis 6cp

Select 12 credit points of options 12cp

Other information
Further information is available from:
Francine Ngai
Hong Kong Management Association
telephone +852 2774 8576 / 8586
or
Xenia Wong
telephone +852 2774 8565
fax +852 2365 1000
16/F Tower B, Southmark
11 Yip Hing Street, Wong Chuk Hang
Hong Kong
email memb_uts@hkma.org.hk
www.hkma.org.hk

C04090v5 Master of Engineering
Award(s): Master of Engineering (ME)
CRICOS code: 017900B
Commonwealth-supported place?: No
Load credit points: 60
Course EFTSL: 1.25
Location: City campus

Overview
This course provides an opportunity at master’s level for professionally qualified engineers to extend in depth and breadth the knowledge and skills gained from their undergraduate studies. Each program must be designed to enhance technological knowledge pertaining to one or more fields of engineering. The completion of subjects and project work at advanced level is central to this requirement.

Students may choose a program of study that deepens the body of knowledge acquired in their first degree as well as expands knowledge boundaries into policy and engineering management areas. The program of study is usually framed within a postgraduate program major and supervised by an experienced academic in that field. Students also have the option of not electing a major.
Career options
Students who have a basic engineering undergraduate degree are able to enhance their ability and knowledge through master’s-level courses in their respective majors, enabling them to gain and hold employment in their respective engineering fields.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If applicants are not graduates from the UTS Bachelor of Engineering Diploma in Engineering Practice, they must have an engineering degree from a recognised tertiary institution as well as two years’ relevant work experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or IELTS: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Credit recognition is considered in accordance with the University’s policy on credit recognition:

www.gsu.uts.edu.au/policies/credit-recognition.html

Students may be eligible for credit recognition based on previous postgraduate award study. Subjects undertaken as part of an undergraduate degree, irrespective of their level of study, are not normally considered for credit recognition.

Students who have completed postgraduate subjects as part of a postgraduate degree may be eligible for credit recognition of up to 12 credit points (two subjects) towards an engineering master’s degree.

Students who have previously completed subjects at UTS that are part of the postgraduate degree to which they are admitted, may be eligible for credit recognition of up to 18 credit points (three subjects) towards an engineering master’s degree.

Students who have previously completed subjects as part of a UTS Engineering graduate certificate may be eligible for credit recognition of up to 24 credit points (four subjects) towards equivalent subjects in an engineering master’s degree.

Further information is available at:


Course duration and attendance
The course may be completed in one-and-a-half years on a full-time basis or two to three years on a part-time basis. Classes are usually held in the evenings or in block mode. Some subjects may be available in distance mode.

Course structure
Candidates complete coursework subjects and a major individual project, totalling 60 credit points of study. The project component is typically undertaken following completion of the coursework.

Some postgraduate program majors may require students to complete a number of prescribed subjects with or without opportunity for electives. Subjects are selected from those offered by UTS: Engineering, other UTS faculties, other faculties of engineering (including the University of Sydney, the University of New South Wales and the University of Western Sydney), and other institutions approved by Academic Board. Not less than 60 per cent of total credit points must be completed through subjects offered, and/or a graduate project supervised, by UTS: Engineering.

The graduate project must be supervised by a principal supervisor who is a member or adjunct member of academic staff of the Faculty of Engineering and Information Technology.

A major is granted if four subjects (24 credit points) are completed within a particular postgraduate program major, together with an approved graduate project (18-30 credit points) in the major.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90443</td>
<td>Major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90230</td>
<td>Elective</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 30 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90080</td>
<td>Project + two electives</td>
<td>30cp</td>
</tr>
<tr>
<td>STM90081</td>
<td>Project + one elective</td>
<td>30cp</td>
</tr>
<tr>
<td>STM90082</td>
<td>Project</td>
<td>30cp</td>
</tr>
</tbody>
</table>

Total 60cp

Course program
The tables below give details of each major: for each major there are three tables. The first lists the compulsory subjects and allowable option choices for the major. The next two tables show the subjects typically offered in Autumn and Spring semesters. Where an elective is specified, any subject in the range 49000 to 49999 is recommended, except for 49277, 49278, 49279, 49454, 49456, 49459, 49460, 49461, 49462, 49463, 49464 and 49465. Some subjects are offered in weekly mode, others in block mode, and others in distance mode or a combination of modes.

List of majors

<table>
<thead>
<tr>
<th>Code</th>
<th>Major Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ03455</td>
<td>Civil Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03438</td>
<td>Computer Control Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03439</td>
<td>Energy Planning and Policy</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ08860</td>
<td>Engineering Management</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03416</td>
<td>Environmental Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03440</td>
<td>Local Government Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03442</td>
<td>Manufacturing Engineering and Management</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03432</td>
<td>Software Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03433</td>
<td>Structural Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03435</td>
<td>Telecommunications Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03434</td>
<td>Telecommunication Networks</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03436</td>
<td>Water Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90473</td>
<td>No specified major</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03461</td>
<td>Geotechnical Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03463</td>
<td>Operations</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03465</td>
<td>Biomedical Engineering</td>
<td>24cp</td>
</tr>
<tr>
<td>MAJ03469</td>
<td>Systems Engineering</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Civil Engineering major

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49105</td>
<td>Water Supply and Wastewater Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6cp</td>
</tr>
<tr>
<td>49115</td>
<td>Facade Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49131</td>
<td>Bridge Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49136</td>
<td>Application of Timber in Engineering Structures</td>
<td>6cp</td>
</tr>
<tr>
<td>49150</td>
<td>Prestressed Concrete Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49143</td>
<td>Civil Engineering Review 1</td>
<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Civil Engineering major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49105</td>
<td>Water Supply and Wastewater Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49136</td>
<td>Application of Timber in Engineering Structures</td>
<td>6cp</td>
</tr>
<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6cp</td>
</tr>
</tbody>
</table>
### Civil Engineering major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49115</td>
<td>Facade Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49131</td>
<td>Bridge Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49150</td>
<td>Prestressed Concrete Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Computer Control Engineering major

Select two subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
<td>6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>49275</td>
<td>Neural Networks and Fuzzy Logic</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Energy Planning and Policy major

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49021</td>
<td>Evaluation of Infrastructure Investments</td>
<td>6cp</td>
</tr>
<tr>
<td>49024</td>
<td>Energy Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>49076</td>
<td>Regulatory Economics</td>
<td>6cp</td>
</tr>
<tr>
<td>49026</td>
<td>Electricity Sector Planning and Restructuring</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Energy Planning and Policy major - subjects typically offered in Autumn

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49021</td>
<td>Evaluation of Infrastructure Investments</td>
<td>6cp</td>
</tr>
<tr>
<td>49026</td>
<td>Electricity Sector Planning and Restructuring</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Energy Planning and Policy major - subjects typically offered in Spring

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49024</td>
<td>Energy Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>49076</td>
<td>Regulatory Economics</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Environmental Engineering major

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49049</td>
<td>Air and Noise Pollution</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49122</td>
<td>Ecology and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49123</td>
<td>Waste and Pollution Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49125</td>
<td>Environmental Risk Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49127</td>
<td>On-site Water and Wastewater Treatment</td>
<td>6cp</td>
</tr>
<tr>
<td>49257</td>
<td>Geographic Information Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Environmental Engineering major - subjects typically offered in Autumn

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49123</td>
<td>Waste and Pollution Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49257</td>
<td>Geographic Information Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Environmental Engineering major - subjects typically offered in Spring

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49108</td>
<td>Local Government Powers and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Local Government Engineering major

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Local Government Engineering major - subjects typically offered in Autumn

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49108</td>
<td>Local Government Powers and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Local Government Engineering major - subjects typically offered in Spring

Select four subjects from the following:

<table>
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<th>Code</th>
<th>Subject</th>
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</tr>
</thead>
<tbody>
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<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Manufacturing Engineering and Management major

Select four subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49049</td>
<td>Air and Noise Pollution</td>
<td>6cp</td>
</tr>
<tr>
<td>49307</td>
<td>Internal Combustion Engines</td>
<td>6cp</td>
</tr>
<tr>
<td>49316</td>
<td>Materials Handling</td>
<td>6cp</td>
</tr>
<tr>
<td>49321</td>
<td>Energy Conversion</td>
<td>6cp</td>
</tr>
<tr>
<td>49322</td>
<td>Airconditioning</td>
<td>6cp</td>
</tr>
<tr>
<td>49325</td>
<td>Computer-aided Mechanical Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49328</td>
<td>Turbomachines</td>
<td>6cp</td>
</tr>
<tr>
<td>49928</td>
<td>Design Optimisation for Manufacturing</td>
<td>6cp</td>
</tr>
<tr>
<td>49312</td>
<td>Advanced Flow Modelling</td>
<td>6cp</td>
</tr>
</tbody>
</table>
Manufacturing Eng and Management - subjects typically offered in Autumn
49002 Managing Projects 6cp
49316 Materials Handling 6cp
49321 Energy Conversion 6cp
49322 Airconditioning 6cp
49928 Design Optimisation for Manufacturing 6cp

Manufacturing Eng and Management - subjects typically offered in Spring
49002 Managing Projects 6cp
49049 Air and Noise Pollution 6cp
49307 Internal Combustion Engines 6cp
49312 Advanced Flow Modelling 6cp
49325 Computer-aided Mechanical Design 6cp
49328 Turbomachines 6cp

Software Engineering major
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp

Software Engineering major - subjects typically offered in Autumn
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp

Software Engineering major - subjects typically offered in Spring
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp

Structural Engineering major
Select four subjects from the following: 24cp
49002 Managing Projects 6cp
49047 Finite Element Analysis 6cp
49115 Facade Engineering 6cp
49131 Bridge Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49151 Concrete Technology and Practice 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp

Structural Engineering major - subjects typically offered in Autumn
49002 Managing Projects 6cp
49047 Finite Element Analysis 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49135 Wind Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49151 Concrete Technology and Practice 6cp

Structural Engineering major - subjects typically offered in Spring
49002 Managing Projects 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49131 Bridge Design 6cp
49150 Prestressed Concrete Design 6cp
49118 Applied Geotechnics 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp

Telecommunications Engineering major
49205 Transmission Systems 6cp
49215 Telecommunications Industry Management 6cp
Select two subjects from the following: 12cp
49048 Wireless Networking Technologies 6cp
49099 GSM, GPRS and EDGE Technologies 6cp
49110 3G Mobile Communication Systems 6cp
49201 Integrated Services Networks 6cp
49203 Telecommunications Signal Processing 6cp
49223 Satellite Communication Systems 6cp
49249 Telecommunications Engineering Review 6cp

Telecommunications Engineering major - subject typically offered in Autumn
49048 Wireless Networking Technologies 6cp
49099 GSM, GPRS and EDGE Technologies 6cp
49110 3G Mobile Communication Systems 6cp
49201 Integrated Services Networks 6cp
49203 Telecommunications Signal Processing 6cp
49205 Transmission Systems 6cp
49249 Telecommunications Engineering Review 6cp

Telecommunications Engineering major - subject typically offered in Spring
49110 3G Mobile Communication Systems 6cp
49201 Integrated Services Networks 6cp
49215 Telecommunications Industry Management 6cp
49223 Satellite Communication Systems 6cp
49249 Telecommunications Engineering Review 6cp

Telecommunication Networks major
49202 Communication Protocols 6cp
49238 Telecommunication Networks Management 6cp
Select two subjects from the following: 12cp
49048 Wireless Networking Technologies 6cp
49110 3G Mobile Communication Systems 6cp
49201 Integrated Services Networks 6cp
49203 Telecommunications Signal Processing 6cp
49249 Telecommunications Engineering Review 6cp
49205 Transmission Systems 6cp
32555 Fundamentals of Software Development 6cp
32570 Enterprise Software Architecture and Middleware 6cp
32001 Mobile Commerce Technologies 6cp
32118 Mobile Communications and Computing 6cp
49202 Communication Protocols 6cp
49203 Telecommunications Signal Processing 6cp
49249 Telecommunications Engineering Review 6cp
49205 Transmission Systems 6cp
32555 Fundamentals of Software Development 6cp
32570 Enterprise Software Architecture and Middleware 6cp

Telecommunications Networks major - subjects typically offered in Autumn
49048 Wireless Networking Technologies 6cp
49202 Communication Protocols 6cp
49203 Telecommunications Signal Processing 6cp
49249 Telecommunications Engineering Review 6cp
32555 Fundamentals of Software Development 6cp

Telecommunications Networks major - subjects typically offered in Spring
49110 3G Mobile Communication Systems 6cp
49201 Integrated Services Networks 6cp
49215 Telecommunications Industry Management 6cp
49223 Satellite Communication Systems 6cp
49285 Emergency Management 6cp

Water Engineering major
Select four subjects from the following: 24cp
49107 Urban Stormwater Design 6cp
49117 Floodplain Risk Management in NSW 6cp
49122 Ecology and Sustainability 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49255 Catchment Modelling 6cp
49266 Flood Estimation 6cp
49116 Contaminated Site and Waste Remediation 6cp
49126 Environmental Management of Land 6cp
49285 Emergency Management 6cp
**Water Engineering major - subjects typically offered in Autumn**

<table>
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<tr>
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<tbody>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49256</td>
<td>Flood Estimation</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
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**Water Engineering major - subjects typically offered in Spring**

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<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>49117</td>
<td>Floodplain Risk Management in NSW</td>
<td>6cp</td>
</tr>
<tr>
<td>49122</td>
<td>Ecology and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49255</td>
<td>Catchment Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>49116</td>
<td>Contaminated Site and Waste Remediation</td>
<td>6cp</td>
</tr>
<tr>
<td>49285</td>
<td>Emergency Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**No specified major**

Select 24 credit points of options

24cp

**Geotechnical Engineering major**

Select four subjects from the following:

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
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</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6cp</td>
</tr>
<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49257</td>
<td>Geographic Information Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Geotechnical Engineering major - subjects typically offered in Autumn**

<table>
<thead>
<tr>
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<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
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</tbody>
</table>

**Geotechnical Engineering major - subjects typically offered in Spring**

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<tbody>
<tr>
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<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Operations major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49989</td>
<td>Operations Engineering</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 18 credit points from the following options:

18cp

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>49006</td>
<td>Risk Management in Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49036</td>
<td>Leadership and Responsibility</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
</tr>
<tr>
<td>49680</td>
<td>Value Chain Engineering Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

6cp

**Operations major - subjects typically offered in Autumn**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
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<td>Operations Engineering</td>
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**Operations major - subjects typically offered in Spring**

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<tbody>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
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**Systems Engineering major**

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<th>Credit Points</th>
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<tbody>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>32569</td>
<td>Enterprise Business Requirements</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following options:

6cp

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</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49003</td>
<td>Economic Evaluation</td>
<td>6cp</td>
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**Systems Engineering major - subjects typically offered in Autumn**

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<td>6cp</td>
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**Biomedical Engineering major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one of the following:

6cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91429</td>
<td>Physiological Bases of Human Movement</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 12 credit points from the following options:

12cp

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49275</td>
<td>Neural Networks and Fuzzy Logic</td>
<td>6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>32555</td>
<td>Fundamentals of Software Development</td>
<td>6cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics</td>
<td>6cp</td>
</tr>
<tr>
<td>91403</td>
<td>Medical Imaging</td>
<td>6cp</td>
</tr>
<tr>
<td>91110</td>
<td>BioNanotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
<td>6cp</td>
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**Biomedical Engineering major - subjects typically offered in Autumn**

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</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics</td>
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**Biomedical Engineering major - subjects typically offered in Spring**

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<tbody>
<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
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<td>Human Pathophysiology</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Articulation with UTS courses**

This course offers opportunities for articulation from a graduate certificate or graduate diploma to a master’s-level award.

**Transfer between UTS courses**

Applications for admission by internal transfer of candidature from a graduate certificate may be considered following completion of subjects totalling at least 18 credit points at a level of performance deemed by the Faculty Board in Engineering and Information Technology to be satisfactory evidence of an ability to undertake master's candidature (typically 60 per cent average).

**Other information**

Further information is available from:

Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
**Course duration and attendance**
The course duration is two years if two subjects are taken per semester. The course can also be completed in one year of full-time study if four subjects per semester are completed. The program is structured for evening attendance or distance mode. Extra intensive classes may be held during Summer session for selected subjects.

**Course structure**
The course requires 48 credit points of study. A minimum of 36 credit points (six subjects) must be completed from the list of MEM core subjects. Any remaining credit points should be completed from other postgraduate subjects within UTS: Engineering in the range 49000 to 49999, except for 49277, 49278, 49279, 49454, 49458, 49459, 49460, 49461, 49462, 49463, 49464 and 49465. Not less than 60 per cent (five subjects) of the total number of credit points must be completed through subjects offered by UTS: Engineering.

**Course completion requirements**
CBK90154 Core subjects choice 36cp
CBK90743 Electives 12cp
Total 48cp

**Course program**
The core and elective choices are shown below.
Select 36 credit points from the following options:
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp
Select one of the following:
49006 Leadership and Responsibility 6cp
21844 Managing Work and People 6cp
Select one of the following:
49008 Engineering Financial Control 6cp
22747 Accounting for Managerial Decisions 6cp
Select 12 credit points of electives 12cp

**Subjects typically offered in Autumn**
21844 Managing Work and People 6cp
22747 Accounting for Managerial Decisions 6cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49006 Leadership and Responsibility 6cp
49008 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp

**Subjects typically offered in Spring**
21844 Managing Work and People 6cp
22747 Accounting for Managerial Decisions 6cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49006 Leadership and Responsibility 6cp
49008 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp

**Further study at UTS**
The Master of Business Administration (C04018) (see page 303) (Technology Management major) may be entered directly after completion of this course. With suitable choice of subjects from the MEM, exemptions may be granted for up to eight subjects in the MBA.

**Other information**
Further information is available from:
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or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

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**Students are advised to read the General information and Course area information sections in conjunction with specific course entries.**
C04097v2 Master of Engineering Studies

Award(s): Master of Engineering Studies (MEStud)
UAC code: 942301 (No specified) (Autumn semester), 942304 (Software Engineering) (Autumn semester), 942307 (Structural Engineering) (Autumn semester), 942310 (Telecommunication Networks) (Autumn semester), 942313 (Telecommunications Engineering) (Autumn semester), 942316 (Water Engineering) (Autumn semester), 942319 (Computer Control Engineering) (Autumn semester), 942322 (Energy Planning and Policy) (Autumn semester), 942325 (Local Government Engineering) (Autumn semester), 942331 (Manufacturing Engineering and Management) (Autumn semester), 942339 (Telecommunications Engineering and Telecommunication Networks) (Autumn semester), 942340 (Local Government Engineering and Environmental Engineering) (Autumn semester), 942359 (Civil Engineering) (Autumn semester), 942354 (Civil Engineering and Structural Engineering) (Autumn semester), 942356 (Integrated Logistic Support and Engineering Management) (Autumn semester), 942359 (Geotechnical Engineering) (Autumn semester), 942362 (Civil and Geotechnical Engineering) (Autumn semester), 942365 (Operations) (Autumn semester), 942368 (Systems Engineering) (Autumn semester), 942371 (Biomedical Engineering) (Autumn semester), 945301 (No specified) (Spring semester), 945304 (Software Engineering) (Spring semester), 945307 (Structural Engineering) (Spring semester), 945310 (Telecommunication Networks) (Spring semester), 945313 (Telecommunications Engineering) (Spring semester), 945316 (Water Engineering) (Spring semester), 945319 (Computer Control Engineering) (Spring semester), 945322 (Energy Planning and Policy) (Spring semester), 945325 (Local Government Engineering) (Spring semester), 945331 (Manufacturing Engineering and Management) (Spring semester), 945339 (Telecommunications Engineering and Telecommunication Networks) (Spring semester), 945340 (Local Government Engineering and Environmental Engineering) (Spring semester), 945350 (Civil Engineering) (Spring semester), 945354 (Civil Engineering and Structural Engineering) (Spring semester), 945356 (Integrated Logistic Support and Engineering Management) (Spring semester), 945359 (Geotechnical Engineering) (Spring semester), 945362 (Civil and Geotechnical Engineering) (Spring semester), 945365 (Operations) (Spring semester), 945368 (Systems Engineering) (Spring semester), 945369 (Manufacturing Engineering) (Spring semester), 945371 (Biomedical Engineering) (Spring semester)
CRICOS code: 028689J
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The flexible structure of this course allows recently graduated engineers and technical specialists to deepen the knowledge and skills gained in their first degree while expanding their managerial and policy knowledge.

Students may choose a program of study that deepens the body of knowledge acquired in their first degree as well as expands knowledge boundaries into policy and engineering management areas. The program of study is usually framed within a postgraduate program major and supervised by an experienced academic in that field. Students also have the option of not electing a major.

Career options
Students who have a basic engineering undergraduate degree are able to enhance their ability and knowledge through master’s-level courses in their respective majors, enabling them to gain and hold employment in their respective engineering fields.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in engineering or another technological/applied science field.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 70-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Credit recognition is considered in accordance with the University’s policy on credit recognition:
www.gsu.uts.edu.au/policies/credit-recognition.html

Students may be eligible for credit recognition based on previous postgraduate award study. Subjects undertaken as part of an undergraduate degree, irrespective of their level of study, are not normally considered for credit recognition.

Students who have completed postgraduate subjects as part of a postgraduate degree may be eligible for credit recognition of up to 12 credit points (two subjects) towards an engineering master’s degree.

Students who have previously completed subjects at UTS that are part of the postgraduate degree to which they are admitted, may be eligible for credit recognition of up to 18 credit points (three subjects) towards an engineering master’s degree.

Students who have previously completed subjects as part of a UTS Engineering graduate certificate may be eligible for credit recognition of up to 24 credit points (four subjects) towards equivalent subjects in an engineering master’s degree.

Further information is available at:

Course duration and attendance
The course requires one year of full-time or two years of part-time study.

Subjects are offered as three-hour weekly sessions, in block or distance mode. Each subject usually requires three hours of class attendance per week. Subjects offered by distance mode require similar hours but at the convenience of the student.

Course structure
Students must complete eight postgraduate subjects (totalling 48 credit points) offered by UTS: Engineering. Students wishing to have a major noted on their academic transcript must complete subjects as specified under that major.

Course completion requirements
CBK09330 Major choice  48cp
Total 48cp

Course program
The tables below give details of each major: for each major there are three tables. The first lists the compulsory subjects and allowable option choices for the major. The next two tables show the subjects typically offered in Autumn and Spring semesters. Where an elective is specified, any subject in the range 49000 to 49999 is recommended, except for 49277, 49278, 49279, 49454, 49458, 49459, 49460, 49461, 49462, 49463, 49464 and 49465. Some subjects are offered in weekly mode, others in block mode, and others in distance mode or a combination of modes.

List of majors
MAJ03454 Civil Engineering  48cp
MAJ03456 Civil Engineering and Structural Engineering  48cp
MAJ03430 Computer Control Engineering  48cp
MAJ03380 Energy Planning and Policy  48cp
MAJ03375 Local Government Engineering  48cp
MAJ03443 Local Government Engineering and Environmental Engineering  48cp
MAJ03415 Manufacturing Engineering and Management  48cp
MAJ03379 Software Engineering  48cp
MAJ03378 Structural Engineering  48cp
MAJ03385 Telecommunication Networks  48cp
MAJ03382 Telecommunications Engineering  48cp
MAJ03431 Telecommunications Engineering and Telecommunication Networks  48cp
MAJ03372 Water Engineering  48cp
CRB90038 No specified major  48cp
MAJ03452 Integrated Logistic Support and Engineering Management  48cp
MAJ03459 Civil and Geotechnical Engineering  48cp
MAJ03460 Geotechnical Engineering  48cp
MAJ03454 Operations  48cp
MAJ03466 Biomedical Engineering  48cp
MAJ03467 Systems Engineering  48cp

Civil Engineering major
Select four subjects from the following:  24cp
49002 Managing Projects  6cp
49102 Traffic and Transportation  6cp
49105 Water Supply and Wastewater Management  6cp
49106 Road Engineering Practice  6cp
49107 Urban Stormwater Design  6cp
49109 Engineered Natural Water Treatment Systems  6cp
49115 Facade Engineering  6cp
49121 Environmental Assessment and Planning  6cp
49126 Environmental Management of Land  6cp
49131 Bridge Design  6cp
49136 Application of Timber in Engineering Structures  6cp
49150 Prestressed Concrete Design  6cp
49143 Civil Engineering Review 1  6cp
49119 Problematic Soils and Ground Improvement Techniques  6cp
49254 Advanced Soil Mechanics and Foundation Design  6cp
49258 Pavement Analysis and Design  6cp
49118 Applied Geotechnics  6cp
Select three subjects from the following:  18cp
49001 Judgment and Decision Making  6cp
49013 Managing Information Technology in Engineering  6cp
49016 Technology and Innovation Management  6cp
49036 Quality and Operations Management Systems  6cp
Select 6 credit points of electives  6cp

Civil Engineering major - subjects typically offered in Autumn
49001 Judgment and Decision Making  6cp
49002 Managing Projects  6cp
49013 Managing Information Technology in Engineering  6cp
49016 Technology and Innovation Management  6cp
49102 Traffic and Transportation  6cp
49105 Water Supply and Wastewater Management  6cp
49106 Road Engineering Practice  6cp
49107 Urban Stormwater Design  6cp
49109 Engineered Natural Water Treatment Systems  6cp
49126 Environmental Management of Land  6cp
49131 Bridge Design  6cp
49136 Application of Timber in Engineering Structures  6cp
49254 Advanced Soil Mechanics and Foundation Design  6cp
49258 Pavement Analysis and Design  6cp
49118 Applied Geotechnics  6cp

Civil Engineering major - subjects typically offered in Spring
49001 Judgment and Decision Making  6cp
49002 Managing Projects  6cp
49013 Managing Information Technology in Engineering  6cp
49016 Technology and Innovation Management  6cp
49102 Traffic and Transportation  6cp
49105 Water Supply and Wastewater Management  6cp
49106 Road Engineering Practice  6cp
49115 Facade Engineering  6cp
49121 Environmental Assessment and Planning  6cp
49131 Bridge Design  6cp
49150 Prestressed Concrete Design  6cp
49188 Quality and Operations Management Systems  6cp
49118 Applied Geotechnics  6cp

Civil Engineering and Structural Engineering major
Select four subjects from the following:  24cp
49002 Managing Projects  6cp
49047 Finite Element Analysis  6cp
49115 Facade Engineering  6cp
49134 Structural Dynamics and Earthquake Engineering  6cp
49136 Application of Timber in Engineering Structures  6cp
49150 Prestressed Concrete Design  6cp
49129 Structural Engineering Review 2  6cp
49191 Problematic Soils and Ground Improvement Techniques  6cp
49131 Bridge Design  6cp
49254 Advanced Soil Mechanics and Foundation Design  6cp
49258 Pavement Analysis and Design  6cp

Civil and Structural Eng major - subjects typically offered in Autumn
49002 Managing Projects  6cp
49047 Finite Element Analysis  6cp
49102 Traffic and Transportation  6cp
49105 Water Supply and Wastewater Management  6cp
49106 Road Engineering Practice  6cp
49107 Urban Stormwater Design  6cp
49109 Engineered Natural Water Treatment Systems  6cp
49119 Problematic Soils and Ground Improvement Techniques  6cp
49126 Environmental Management of Land  6cp
49134 Structural Dynamics and Earthquake Engineering  6cp
49136 Application of Timber in Engineering Structures  6cp

Civil and Structural Eng major - subjects typically offered in Spring
49001 Judgment and Decision Making  6cp
49002 Managing Projects  6cp
49013 Managing Information Technology in Engineering  6cp
49016 Technology and Innovation Management  6cp
49102 Traffic and Transportation  6cp
49105 Water Supply and Wastewater Management  6cp
49106 Road Engineering Practice  6cp
49115 Facade Engineering  6cp
49126 Environmental Management of Land  6cp
49131 Bridge Design  6cp
49150 Prestressed Concrete Design  6cp

Computer Control Engineering major
Select two subjects from the following:  12cp
49261 Biomedical Instrumentation  6cp
49274 Advanced Robotics  6cp
49275 Neural Networks and Fuzzy Logic  6cp
Select two subjects from the following:  12cp
49048 Wireless Networking Technologies  6cp
49261 Biomedical Instrumentation  6cp
49262 Web Technologies  6cp
49263 Software Analysis and Design  6cp
32603 Systems Quality Management  6cp
32555 Fundamentals of Software Development  6cp
49274 Advanced Robotics  6cp
49275 Neural Networks and Fuzzy Logic  6cp
Select three subjects from the following:  18cp
49001 Judgment and Decision Making  6cp
49013 Managing Information Technology in Engineering  6cp
49016 Technology and Innovation Management  6cp
49036 Quality and Operations Management Systems  6cp
Select 6 credit points of electives  6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Computer Control Engineering major - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49048 Wireless Networking Technologies 6cp
32603 Systems Quality Management 6cp
32855 Fundamentals of Software Development 6cp
49297 Neural Networks and Fuzzy Logic 6cp
49306 Quality and Operations Management Systems 6cp

Energy Planning and Policy major
49021 Evaluation of Infrastructure Investments 6cp
49024 Energy Modelling 6cp
49706 Regulatory Economics 6cp
49026 Electricity Sector Planning and Restructuring 6cp
Select three subjects from the following: 18cp
49029 Environmental Policy for Energy Systems 6cp
49025 Methods for Energy Analysis 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028 Policy and Planning of Energy Conservation 6cp
49022 Energy Resources and Technology 6cp
49023 Energy and Environmental Economics 6cp
49701 Gas Sector Planning 6cp
49702 Gas Distribution Technology and Management 6cp
49703 Selected Topics (Energy Pricing) 6cp

Energy Planning and Policy major - subjects typically offered in Autumn
49021 Evaluation of Infrastructure Investments 6cp
49025 Methods for Energy Analysis 6cp
49026 Electricity Sector Planning and Restructuring 6cp
49027 Energy Demand Analysis and Forecasting 6cp

Energy Planning and Policy major - subjects typically offered in Spring
49024 Energy Modelling 6cp
49028 Policy and Planning of Energy Conservation 6cp
49029 Environmental Policy for Energy Systems 6cp
49706 Regulatory Economics 6cp

Integrated Logistic Support and Engineering Management major
49001 Judgment and Decision Making 6cp
49004 Systems Engineering for Managers 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49678 Integrated Logistic Support 6cp
49679 Reliability Availability and Maintainability 6cp
49680 Value Chain Engineering Systems 6cp

Integrated Logistic Support Eng Mg - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49004 Systems Engineering for Managers 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49678 Integrated Logistic Support 6cp
49679 Reliability Availability and Maintainability 6cp
49680 Value Chain Engineering Systems 6cp

Integrated Logistic Support Eng Mg - subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49004 Systems Engineering for Managers 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49678 Integrated Logistic Support 6cp
49679 Reliability Availability and Maintainability 6cp
49680 Value Chain Engineering Systems 6cp

Local Government Engineering major
Select four subjects from the following: 24cp
49102 Traffic and Transportation 6cp
49258 Pavement Analysis and Design 6cp
49106 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49108 Local Government Powers and Practice 6cp
49121 Environmental Assessment and Planning 6cp
49126 Environmental Management of Land 6cp

Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49025 Methods for Energy Analysis 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028 Policy and Planning of Energy Conservation 6cp
49022 Energy Resources and Technology 6cp
49023 Energy and Environmental Economics 6cp
49701 Gas Sector Planning 6cp
49702 Gas Distribution Technology and Management 6cp
49703 Selected Topics (Energy Pricing) 6cp

Local Government Engineering - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49025 Methods for Energy Analysis 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028 Policy and Planning of Energy Conservation 6cp
49022 Energy Resources and Technology 6cp
49023 Energy and Environmental Economics 6cp
49701 Gas Sector Planning 6cp
49702 Gas Distribution Technology and Management 6cp
49703 Selected Topics (Energy Pricing) 6cp

Local Government Engineering - subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49025 Methods for Energy Analysis 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028 Policy and Planning of Energy Conservation 6cp
49022 Energy Resources and Technology 6cp
49023 Energy and Environmental Economics 6cp
49701 Gas Sector Planning 6cp
49702 Gas Distribution Technology and Management 6cp
49703 Selected Topics (Energy Pricing) 6cp

Local Government Eng and Environmental Eng major
49108 Local Government Powers and Practice 6cp
49126 Environmental Management of Land 6cp
49123 Waste and Pollution Management 6cp
Select four subjects from the following: 24cp
49049 Air and Noise Pollution 6cp
49102 Traffic and Transportation 6cp
49106 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49122 Ecology and Sustainability 6cp
49125 Environmental Risk Assessment 6cp
49127 On-site Water and Wastewater Treatment 6cp
49109 Engineered Natural Water Treatment Systems 6cp

Local Govt Eng and Env Eng major - subjects typically offered in Autumn
49102 Traffic and Transportation 6cp
49107 Urban Stormwater Design 6cp
49108 Local Government Powers and Practice 6cp
49123 Waste and Pollution Management 6cp
49126 Environmental Management of Land 6cp

Local Govt Eng and Env Eng major - subjects typically offered in Spring
49049 Air and Noise Pollution 6cp
49102 Traffic and Transportation 6cp
49121 Environmental Assessment and Planning 6cp
49122 Ecology and Sustainability 6cp
49125 Environmental Risk Assessment 6cp
49127 On-site Water and Wastewater Treatment 6cp
Manufacturing Engineering and Management major
Select four subjects from the following: 24cp
49002 Managing Projects 6cp
49004 Air and Noise Pollution 6cp
49070 Internal Combustion Engines 6cp
49316 Materials Handling 6cp
49321 Energy Conversion 6cp
49322 Airconditioning 6cp
49325 Computer-aided Mechanical Design 6cp
49328 Turbomachines 6cp
49928 Design Optimisation for Manufacturing 6cp
49312 Advanced Flow Modelling 6cp

Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Select 6 credit points of electives 6cp

Software Engineering major
49002 Managing Projects 6cp
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp

Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Software Engineering major - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49015 Computer-aided Mechanical Design 6cp
49036 Quality and Operations Management Systems 6cp

Select four subjects from the following: 24cp
49049 Air and Noise Pollution 6cp
49306 Quality and Operations Management Systems 6cp
49328 Turbomachines 6cp
49928 Design Optimisation for Manufacturing 6cp

Select 6 credit points of electives 6cp

Software Engineering major - subjects typically offered in Spring
49002 Managing Projects 6cp
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp

Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Structural Engineering major
Select four subjects from the following: 24cp
49047 Finite Element Analysis 6cp
49131 Bridge Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49002 Managing Projects 6cp
49115 Facade Engineering 6cp
49118 Applied Geotechnics 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49135 Wind Engineering 6cp
49143 Civil Engineering Review 1 6cp
49151 Concrete Technology and Practice 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp

Select 6 credit points of electives 6cp

Structural Engineering major - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Structural Engineering major - subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Telecommunication Networks major
49202 Communication Protocols 6cp
49238 Telecommunication Networks Management 6cp

Select two subjects from the following: 12cp
49048 Wireless Networking Technologies 6cp
49201 Integrated Services Networks 6cp
49215 Telecommunications Industry Management 6cp
49249 Telecommunications Engineering Review 6cp
49262 Web Technologies 6cp
32570 Enterprise Software Architecture and Middleware 6cp
49203 Telecommunications Signal Processing 6cp
32555 Fundamentals of Software Development 6cp
49110 3G Mobile Communication Systems 6cp
32001 Mobile Commerce Technologies 6cp
32118 Mobile Communications and Computing 6cp
49292 Interior Routing and High Availability 6cp
49293 Multi Protocol Label Switching 6cp

Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49036 Quality and Operations Management Systems 6cp

Select 6 credit points of electives 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Telecommunication Networks major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49013</td>
<td>Managing Information Technology in Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49201</td>
<td>Integrated Services Networks</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49238</td>
<td>Telecommunication Networks Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Telecommunication Networks major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
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<td>Managing Information Technology in Engineering</td>
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<td>Technology and Innovation Management</td>
<td>6cp</td>
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<td>49201</td>
<td>Integrated Services Networks</td>
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</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
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<td>49238</td>
<td>Telecommunication Networks Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
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<tr>
<td>49262</td>
<td>Web Technologies</td>
<td>6cp</td>
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<tr>
<td>32570</td>
<td>Enterprise Software Architecture and Middleware</td>
<td>6cp</td>
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<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49110</td>
<td>3G Mobile Communication Systems</td>
<td>6cp</td>
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</table>

### Telecommunications Engineering major

<table>
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<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49205</td>
<td>Transmission Systems</td>
<td>6cp</td>
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<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
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</table>

Select two subjects from the following: 12cp

<table>
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<tr>
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<tbody>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
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<td>49201</td>
<td>Integrated Services Networks</td>
<td>6cp</td>
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<tr>
<td>49099</td>
<td>GSM, GPRS and EDGE Technologies</td>
<td>6cp</td>
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<td>49203</td>
<td>Telecommunications Signal Processing</td>
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<td>49223</td>
<td>Satellite Communication Systems</td>
<td>6cp</td>
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<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
</tr>
<tr>
<td>49110</td>
<td>3G Mobile Communication Systems</td>
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Select three subjects from the following: 18cp

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<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives 6cp

### Telecommunications Engineering - subjects typically offered in Autumn

<table>
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<td>Telecommunications Engineering Review</td>
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<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
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### Telecommunications Engineering - subjects typically offered in Spring

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<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
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<td>49110</td>
<td>3G Mobile Communication Systems</td>
<td>6cp</td>
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<tr>
<td>49201</td>
<td>Integrated Services Networks</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49223</td>
<td>Satellite Communication Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Telecommunication Engineering and Telecommunication Networks major

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49202</td>
<td>Communication Protocols</td>
<td>6cp</td>
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<tr>
<td>49238</td>
<td>Telecommunication Networks Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49205</td>
<td>Transmission Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>
Geotechnical Engineering major
Select four subjects from the following: 24cp
49102 Traffic and Transportation 6cp
49106 Road Engineering Practice 6cp
49116 Contaminated Site and Waste Remediation 6cp
49118 Applied Geotechnics 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49126 Environmental Management of Land 6cp
49143 Civil Engineering Review 1 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49257 Geographic Information Systems 6cp
49258 Pavement Analysis and Design 6cp
Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49102 Traffic and Transportation 6cp
49118 Applied Geotechnics 6cp
49106 Road Engineering Practice 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49126 Environmental Management of Land 6cp
49258 Pavement Analysis and Design 6cp
49257 Geographic Information Systems 6cp
49306 Quality and Operations Management Systems 6cp
Select 6 credit points of electives 6cp

Geotechnical Engineering major - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49102 Traffic and Transportation 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49126 Environmental Management of Land 6cp
49258 Pavement Analysis and Design 6cp
49257 Geographic Information Systems 6cp
49306 Quality and Operations Management Systems 6cp

Geotechnical Engineering major - subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49106 Road Engineering Practice 6cp
49116 Contaminated Site and Waste Remediation 6cp
49118 Applied Geotechnics 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49306 Quality and Operations Management Systems 6cp

Civil and Geotechnical Engineering major
Select four subjects from the following: 24cp
49102 Traffic and Transportation 6cp
49106 Road Engineering Practice 6cp
49116 Contaminated Site and Waste Remediation 6cp
49118 Applied Geotechnics 6cp
49126 Environmental Management of Land 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49257 Geographic Information Systems 6cp
49258 Pavement Analysis and Design 6cp
Select four subjects from the following: 24cp
49002 Managing Projects 6cp
49047 Finite Element Analysis 6cp
49107 Urban Stormwater Design 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49115 Façade Engineering 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49256 Flood Estimation 6cp

Civil and Geotechnical Eng major - subjects typically offered in Autumn
49002 Managing Projects 6cp
49047 Finite Element Analysis 6cp
49102 Traffic and Transportation 6cp
49107 Urban Stormwater Design 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49126 Environmental Management of Land 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49256 Flood Estimation 6cp

Civil and Geotechnical Eng major - subjects typically offered in Spring
49002 Managing Projects 6cp
49016 Road Engineering Practice 6cp
49115 Façade Engineering 6cp
49116 Contaminated Site and Waste Remediation 6cp
49118 Applied Geotechnics 6cp
49131 Bridge Design 6cp
49150 Prestressed Concrete Design 6cp
49255 Catchment Modelling 6cp

Operations major
49002 Managing Projects 6cp
49306 Quality and Operations Management Systems 6cp
49309 Quality Planning and Analysis 6cp
49989 Operations Engineering 6cp
Select three subjects from the following: 18cp
49001 Judgment and Decision Making 6cp
49004 Systems Engineering for Managers 6cp
49006 Risk Management in Engineering 6cp
49016 Technology and Innovation Management 6cp
49069 Leadership and Responsibility 6cp
49678 Reliability Availability and Maintainability 6cp
49680 Value Chain Engineering Systems 6cp
Select 6 credit points of electives 6cp

Operations major - subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49006 Risk Management in Engineering 6cp
49016 Technology and Innovation Management 6cp
49069 Leadership and Responsibility 6cp
49306 Quality and Operations Management Systems 6cp
49309 Quality Planning and Analysis 6cp
49678 Reliability Availability and Maintainability 6cp
49680 Value Chain Engineering Systems 6cp
49989 Operations Engineering 6cp

Operations major - subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49006 Risk Management in Engineering 6cp
49016 Technology and Innovation Management 6cp
49069 Leadership and Responsibility 6cp
49306 Quality and Operations Management Systems 6cp
49309 Quality Planning and Analysis 6cp
49655 Integrated Logistic Support 6cp
49680 Value Chain Engineering Systems 6cp
49989 Operations Engineering 6cp

Systems Engineering major
49004 Systems Engineering for Managers 6cp
32569 Enterprise Business Requirements 6cp
49655 Integrated Logistic Support 6cp
49002 Managing Projects 6cp
49001 Judgment and Decision Making 6cp
49003 Economic Evaluation 6cp
Select 12 credit points of electives 12cp
### Systems Engineering major - subjects typically offered in Autumn

- 49001 Judgment and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49003 Economic Evaluation 6cp
- 49004 Systems Engineering for Managers 6cp
- 32569 Enterprise Business Requirements 6cp
- 49655 Integrated Logistic Support 6cp

### Systems Engineering major - subjects typically offered in Spring

- 49001 Judgment and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49003 Economic Evaluation 6cp
- 49004 Systems Engineering for Managers 6cp

### Biomedical Engineering major

- 49261 Biomedical Instrumentation 6cp
- Select one of the following: 6cp
  - 91400 Human Anatomy and Physiology
  - 91429 Physiological Bases of Human Movement
- Select three subjects from the following: 18cp
  - 49275 Neural Networks and Fuzzy Logic 6cp
  - 49274 Advanced Robotics 6cp
  - 49048 Wireless Networking Technologies 6cp
  - 32555 Fundamentals of Software Development 6cp
  - 91705 Medical Devices and Diagnostics 6cp
  - 91140 BioNanotechnology 6cp
  - 91239 Human Pathophysiology 6cp
  - 91403 Medical Imaging 6cp
- Select three subjects from the following: 18cp
  - 49001 Judgment and Decision Making 6cp
  - 49006 Risk Management in Engineering 6cp
  - 49016 Technology and Innovation Management 6cp
  - 49306 Quality and Operations Management Systems 6cp
  - 60904 Innovation, Entrepreneurship and Commercialisation 6cp

### Biomedical Engineering major - subjects typically offered in Autumn

- 49001 Judgment and Decision Making 6cp
- 49006 Risk Management in Engineering 6cp
- 49016 Technology and Innovation Management 6cp
- 49048 Wireless Networking Technologies 6cp
- 32555 Fundamentals of Software Development 6cp
- 49275 Neural Networks and Fuzzy Logic 6cp
- 49306 Quality and Operations Management Systems 6cp
- 91403 Medical Imaging 6cp
- 91429 Physiological Bases of Human Movement 6cp

### Biomedical Engineering major - subjects typically offered in Spring

- 49001 Judgment and Decision Making 6cp
- 49006 Risk Management in Engineering 6cp
- 49016 Technology and Innovation Management 6cp
- 49261 Biomedical Instrumentation 6cp
- 49274 Advanced Robotics 6cp
- 49306 Quality and Operations Management Systems 6cp
- 91140 BioNanotechnology 6cp
- 91239 Human Pathophysiology 6cp
- 91403 Medical Imaging 6cp
- 91705 Medical Devices and Diagnostics 6cp

### Other information

Further information is available from:

Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

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**C04098v3 Master of Environmental Engineering Management**

**Award(s):** Master of Environmental Engineering Management (MEEM)

**UAC code:** 942335 (Autumn semester), 942342 (distance) (Autumn semester), 945335 (Spring semester), 945342 (distance) (Spring semester)

**CRICOS code:** 027917K

**Commonwealth-supported place?:** No

**Load credit points:** 48

**Course EFTSL:** 1

**Location:** City campus or distance

### Overview

This course is designed to enable engineers and other technical specialists to take a leadership role in the field of environmental engineering.

The course combines a set of key subjects that contain information on the nature of environmental problems together with engineering techniques for their solution. This is supplemented by management and policy subjects to empower the engineer, or technical specialist, to lead multidisciplinary teams working in the field of environmental engineering.

### Career options

Career options include positions in government agencies or private corporations, or as consultants.

### Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in engineering or another technological/applied science field. Candidates without a degree, but with suitable experience, may enrol in the Graduate Certificate in Environmental Engineering Management (C11051) (see page 432) and later transfer to the Master of Environmental Engineering Management with full credit for completed subjects.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

### International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Credit recognition

Credit recognition is considered in accordance with the University's policy on credit recognition (www.gsu.uts.edu.au/policies/credit-recognition.html). Students may be eligible for credit recognition based on previous postgraduate award study. Subjects undertaken as part of an undergraduate degree, irrespective of their level of study, are not normally considered for credit recognition.

Students who have completed postgraduate subjects as part of a postgraduate degree may be eligible for credit recognition of up to 12 credit points (two subjects) towards an engineering master's degree. Students who have previously completed subjects at UTS that are part of the postgraduate degree to which they are admitted, may be eligible for credit recognition of up to 18 credit points (three subjects) towards an engineering masters' degree.

Students who have previously completed subjects as part of a UTS Engineering graduate certificate may be eligible for credit recognition of up to 24 credit points (four subjects) towards equivalent subjects in an engineering master's degree.

Further information is available at:

Course duration and attendance
Most students taking two subjects a semester require two years to complete this degree. The course is also available to fee-paying overseas students on a full-time basis, taking one year to complete. The program is structured for evening attendance, block attendance or distance mode. Subjects are offered as three-hour sessions once a week, or in block or distance mode.

Course structure
Students are required to complete 48 credit points of study, comprising 36 credit points from the core subjects and 12 credit points from 49001, 49002, 49003 or 49108.

Course completion requirements
CBK90145 Core subjects 36cp
Select 12 credit points from the following options: 12cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49108 Local Government Powers and Practice 6cp
Total 48cp

Course program
The subjects offered are listed below. As not all subjects are offered every semester, students should check the timetable and seek advice as to which subjects to take in which semester.

Select six subjects from the following: 36cp
49121 Environmental Assessment and Planning 6cp
49122 Ecology and Sustainability 6cp
49123 Waste and Pollution Management 6cp
49257 Geographic Information Systems 6cp
49125 Environmental Risk Assessment 6cp
49126 Environmental Management of Land 6cp
49116 Contaminated Site and Waste Remediation 6cp
49127 On-site Water and Wastewater Treatment 6cp
49109 Engineered Natural Water Treatment Systems 6cp
Select 12 credit points from the following options: 12cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49108 Local Government Powers and Practice 6cp
Subjects typically offered in Autumn
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49108 Local Government Powers and Practice 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49122 Ecology and Sustainability 6cp
49123 Waste and Pollution Management 6cp
49126 Environmental Management of Land 6cp
49257 Geographic Information Systems 6cp
Subjects typically offered in Spring
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49049 Air and Noise Pollution 6cp
49121 Environmental Assessment and Planning 6cp
49125 Environmental Risk Assessment 6cp
49127 On-site Water and Wastewater Treatment 6cp
49116 Contaminated Site and Waste Remediation 6cp

Articulation with UTS courses
Graduate Certificate in Environmental Engineering Management (CI1051) (see page 432) students may transfer to this course with full credit for subjects completed during the graduate certificate.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04102v2 Master of Engineering Management Master of Business Administration
CRICOS code: 030558B
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
The Faculty of Engineering and Information Technology together with the Faculty of Business have developed a suite of master’s degrees that provide all the advantages of a generalist Master of Business Administration and a focused engineering management program.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Once students have completed the Master of Engineering Management they need to submit an application for credit recognition, exempting up to eight subjects (48 credit points) towards the Master of Business Administration (Technology Management major). The faculty does not grant credit recognition based on work experience.

Course duration and attendance
The course can be completed in two years of full-time study, comprising one year each for the Master of Engineering Management and the Master of Business Administration (Technology Management major). It is also available part time. Attendance is available in weekly (normally evenings), block and/or distance modes.

Course structure
To complete the Master of Engineering Management, students must complete six compulsory subjects (totalling 36 credit points) and two elective subjects (totalling 12 credit points) chosen from the list of MEM electives.
To complete the Master of Business Administration (Technology Management major), students must complete six compulsory subjects (totalling 36 credit points) and two elective subjects (totalling 12 credit points) chosen from those available in the Technology Management major.

Course completion requirements
STM90465 MEM stream 48cp
STM90464 MBA stream 48cp
Total 96cp
Course program
The lists of requirements for the Master of Engineering Management and the Master of Business Administration are shown below.

**Master of Engineering Management**
- 49001 Judgment and Decision Making 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 21844 Managing Work and People 6cp
- 49002 Managing Projects 6cp
- 49004 Systems Engineering for Managers 6cp
- 49309 Quality Planning and Analysis 6cp
Select 12 credit points from the following options: 12cp
- 49006 Risk Management in Engineering 6cp
- 49013 Managing Information Technology in Engineering 6cp
- 49016 Managing Information Technology in Systems 6cp
- 49018 Technology and Innovation Management 6cp

**Subject typically offered in Autumn**
- 21844 Managing Work and People 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 49001 Judgment and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49004 Systems Engineering for Managers 6cp
- 49006 Risk Management in Engineering 6cp
- 49013 Managing Information Technology in Engineering 6cp
- 49016 Quality and Operations Management Systems 6cp
- 49018 Technology and Innovation Management 6cp

**Master of Business Administration**
- 21715 Strategic Management 6cp
- 21878 Organisational Dialogue: Theory and Practice 6cp
- 24734 Marketing Management 6cp
- 25706 Economics for Management 6cp
- 25742 Financial Management 6cp
- 21800 Management and Organisations 6cp
Select 12 credit points from the following options: 12cp
- 49006 Risk Management in Engineering 6cp
- 49013 Managing Information Technology in Engineering 6cp
- 49030 Quality and Operations Management Systems 6cp
- 49016 Technology and Innovation Management 6cp

**Subject typically offered in Spring**
- 21844 Managing Work and People 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 49001 Judgment and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49004 Systems Engineering for Managers 6cp
- 49006 Risk Management in Engineering 6cp
- 49013 Managing Information Technology in Engineering 6cp
- 49016 Technology and Innovation Management 6cp
- 49030 Quality and Operations Management Systems 6cp
- 49039 Quality Planning and Analysis 6cp

**Other information**
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

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C04106v5 Master of Arts in Journalism

**Award(s):** Master of Arts in Journalism (MA)
**UAC code:** 942500 (Autumn semester), 945500 (Spring semester)
**CRICOS code:** 006820D

Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

**Overview**
The Master of Arts in Journalism is part of an articulated program of study for people who want to start a journalism career and for experienced journalists wanting to broaden their skills and professional technological expertise and refresh the intellectual basis of their practice.

This is the only program of its kind in Sydney, where the Australian media is increasingly concentrating. The journalism staff at UTS has a record of excellence in professional practice reflected in media contacts. In addition, the course has close links with the Australian Centre for Independent Journalism, which provides a professional setting for student work.

**Course aims**
Graduates of the program:
- have strong research and reporting skills and a knowledge and critical understanding of the media
- are equipped with the necessary skills to either enter professional practice in the media or continue practice with additional skills and intellectual depth
- strive to promote the important role of professional and ethical journalism in the service of the public, and
- have an understanding of the role of the media in local, regional, national and global contexts.

**Career options**
Career options include reporter or editor in local, corporate, national and international print and broadcast media organisations.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**
Students who have successfully completed the Graduate Certificate in Journalism (C11059) (see page 435) or the Graduate Diploma in Journalism (C09637) (see page 388) are eligible for credit recognition for completed subjects.

**Course duration and attendance**
The course is one-and-a-half years of full-time or two-and-a-half years of part-time study.
Course structure
The course totals 72 credit points of study, made up of 48 credit points of core subjects and 24 credit points of elective subjects. Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
- STM90819 Core subjects (Journalism) 40cp
- CBK90898 Elective subjects MA Journalism 24cp
- CBK90899 Choices (Journalism PG) 8cp
- Total 72cp

Course program
Typical course programs are shown below for full-time and part-time students, commencing in either Autumn or Spring semester.

Autumn commencing, full time
Year 1
- Autumn semester
  - 57011 Research and Reporting for Journalism 8cp
  - 57151 Storytelling with Sound and Image 8cp
  - Select one of the following: 8cp
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
- Spring semester
  - 57013 Journalism Studies 8cp
  - 57185 Journalism Major Project 1 8cp
  - Select 8 credit points of options 8cp

Year 2
- Autumn semester
  - 57186 Journalism Major Project 2 8cp
  - Select 16 credit points of electives 16cp

Autumn commencing, part time
Year 1
- Autumn semester
  - 57011 Research and Reporting for Journalism 8cp
  - Select one of the following: 8cp
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
  - 57151 Storytelling with Sound and Image 8cp
- Spring semester
  - 57013 Journalism Studies 8cp
  - 57185 Journalism Major Project 1 8cp
  - Select 8 credit points of electives 8cp

Year 2
- Autumn semester
  - 57186 Journalism Major Project 2 8cp
  - Select 8 credit points of electives 8cp

Spring commencing, full time
Year 1
- Spring semester
  - 57011 Research and Reporting for Journalism 8cp
  - 57151 Storytelling with Sound and Image 8cp
  - 57013 Journalism Studies 8cp

Year 2
- Autumn semester
  - Select one of the following: 8cp
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
  - 57151 Storytelling with Sound and Image 8cp
- Spring semester
  - Select 8 credit points of electives 8cp

Year 3
- Autumn semester
  - 57185 Journalism Major Project 1 8cp
  - Select 8 credit points of electives 8cp

Spring semester
- 57186 Journalism Major Project 2 8cp
  - Select 8 credit points of electives 8cp

Articulation with UTS courses
This course is part of an articulated program including the Graduate Certificate in Journalism (C11058) (see page 435) and the Graduate Diploma in Journalism (C06037) (see page 388).

Other information
Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C04109v7 Master of Arts in Creative Writing
Award(s): Master of Arts in Creative Writing (MA)
UAC code: 942512 (Autumn semester), 945512 (Spring semester)
CRICOS code: 032331E
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Arts in Creative Writing is designed for experienced writers who want to further develop their theoretical knowledge and skills. Students learn valuable skills and work towards developing a major project under the guidance of an academic faculty member with expertise in creative writing.

Students study one genre in depth or explore a range of genres and media.
Course aims
Graduates of this course develop:
• general and specific skills in writing across a range of genres
• an ability to develop and critically revise their own work
• an understanding of the relationships of writing practice and publication across a range of media and contemporary cultural forms
• a critical knowledge of cultural and aesthetic debates, and
• an ability to think creatively and critically about, and contribute to, developments in cultural industries.

Career options
Career options include advertising, computing, creative writing, freelance writing and editing, journalism, media research, publishing or scriptwriting, and editing in community organisations or government departments.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification may submit a personal statement outlining their educational and professional achievements. To be eligible to articulate into the Master of Arts in Creative Writing (C04109) from the Graduate Certificate in Screenwriting (C11066) (see page 436), the Graduate Certificate in Editing and Publishing (C11071) (see page 437), or the Graduate Diploma in Creative Writing (C06041) (see page 389), students must complete at least two postgraduate writing subjects with a distinction grade or higher.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
All applicants are required to:
• submit a personal statement and CV
• explain what writing experience they have
• list their publications, if any
• attach one example of their creative writing
• supply written references from people who are familiar with their ability and potential (if the applicant does not have academic or professional qualifications).

Credit recognition
Students who have successfully completed one of the graduate certificates or the graduate diploma in the articulated program and who are admitted to this course are eligible for credit recognition for completed subjects.

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or equivalent part-time basis.

Course structure
The course comprises 72 credit points, made up of five core subjects and three electives.

Students may select subjects beyond the lists of elective subjects with the approval of the graduate adviser. Not all subjects are available each semester.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90528 Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90815 Core subjects</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90816 Core subjects (Creative Writing)</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>72cp</td>
</tr>
</tbody>
</table>

Course program
Example programs are shown below.

**Autumn commencing, full time**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57031 Non-fiction Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57041 Narrative Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57134 Theory and Creative Writing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57190 Writing Seminar</td>
<td>8cp</td>
</tr>
<tr>
<td>57189 Writing Project 2</td>
<td>8cp</td>
</tr>
<tr>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57190 Writing Seminar</td>
<td>8cp</td>
</tr>
<tr>
<td>57189 Writing Project 2</td>
<td>8cp</td>
</tr>
<tr>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

**Autumn commencing, part time**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Autumn semester</th>
</tr>
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<tbody>
<tr>
<td>57041 Narrative Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57134 Theory and Creative Writing</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>57031 Non-fiction Writing</td>
</tr>
<tr>
<td>Select 8 credit points of electives</td>
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<tbody>
<tr>
<td>57188 Writing Project 1</td>
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<tbody>
<tr>
<td>57190 Writing Seminar</td>
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<td>57189 Writing Project 2</td>
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</thead>
<tbody>
<tr>
<td>57190 Writing Seminar</td>
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**Spring commencing, part time**

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<tr>
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</thead>
<tbody>
<tr>
<td>57041 Narrative Writing</td>
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<tr>
<td>57134 Theory and Creative Writing</td>
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</tbody>
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<tbody>
<tr>
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<td>8cp</td>
</tr>
<tr>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Graduates of this program have a unique blend of health-focused career options. Students can focus on health services management or complete a major in:

- Health Services Planning, or
- Clinical Management, or
- Safety and Quality, or
- Health Research

The curriculum is based on the core competencies identified for health services planning, or Health Research or a no-major option to complete the course. In all options, with the exception of the Health Research major, students must complete a total of 72 credit points, choosing one of four majors (in Planning, Safety and Quality, Clinical Management, or Health Research) or a no-major option to complete the course. In each choice block, students must complete a total of 72 credit points, choosing one of the following:

**Course structure**

Students must complete a total of 72 credit points, choosing one of the following majors:

- MAJ08970 Clinical Management
- MAJ08968 Health Services Planning
- MAJ08969 Safety and Quality in Health Care
- MAJ08970 Clinical Management
- STM90712 Health Services Management (No major)

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
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**Course program**

Typical programs are shown below.

**List of majors**

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<td>MAJ08969</td>
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**No major, Autumn commencing, full time**

**Year 1**

**Autumn semester**

<table>
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<th>Name</th>
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<td>92917</td>
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<td>Human Resource Management</td>
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<tr>
<td>92847</td>
<td>Planning and Evaluating Health Services</td>
<td>6cp</td>
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<td>Issues in Australian Health Services</td>
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**Spring semester**

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<th>Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>92023</td>
<td>Health Services Resource Management</td>
<td>6cp</td>
</tr>
<tr>
<td>92051</td>
<td>Health Services Management and Legal Issues</td>
<td>6cp</td>
</tr>
<tr>
<td>92603</td>
<td>Managing Quality, Risk and Cost in Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92887</td>
<td>Organisational Management in Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>Year 2</td>
<td>Autumn semester</td>
<td></td>
</tr>
<tr>
<td>--------</td>
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<td></td>
</tr>
<tr>
<td>92050</td>
<td>Policy, Power and Politics in Health Care</td>
<td>6cp</td>
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<tr>
<td>26703</td>
<td>Introductory Health Economics</td>
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<tr>
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<tr>
<td>6cp</td>
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<tr>
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<tbody>
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<td>92022</td>
<td>Improving Quality and Safety in Health Care</td>
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<tr>
<td>92050</td>
<td>Policy, Power and Politics in Health Care</td>
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<tr>
<td>92297</td>
<td>Health Systems and Change</td>
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<table>
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<tr>
<th>Year 3</th>
<th>Safety and Quality in Health Care major, Autumn commencing, full time</th>
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<tr>
<td>92022</td>
<td>Improving Quality and Safety in Health Care</td>
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<tr>
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<tr>
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<tr>
<td>92297</td>
<td>Health Systems and Change</td>
</tr>
<tr>
<td>92917</td>
<td>Using Health Care Data for Decision Making</td>
</tr>
<tr>
<td>92847</td>
<td>Planning and Evaluating Health Services</td>
</tr>
<tr>
<td>92603</td>
<td>Managing Quality, Risk and Cost in Health Care</td>
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<table>
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<tr>
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<th>Spring semester</th>
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<tbody>
<tr>
<td>92946</td>
<td>Project Part A</td>
</tr>
<tr>
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<tr>
<th>Year 3</th>
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<tbody>
<tr>
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<tr>
<td>92917</td>
<td>Using Health Care Data for Decision Making</td>
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<tbody>
<tr>
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<td>6cp</td>
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</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Spring semester
92612 Research in Health  6cp
92887 Organisational Management in Health Care  6cp
92603 Managing Quality, Risk and Cost in Health Care  6cp
92931 Health Services Management and Legal Issues  6cp

Year 2
Autumn semester
92300 Policy, Power and Politics in Health Care  6cp
92790 Evidence-based Practice  6cp
CBK90841 Clinical Management Electives  12cp

Clinical Management major, Autumn commencing, part time
Year 1
Autumn semester
92306 Issues in Australian Health Services  6cp
92352 Management for Clinicians  6cp
Spring semester
92917 Using Health Care Data for Decision Making  6cp
92887 Organisational Management in Health Care  6cp
Year 2
Autumn semester
92790 Evidence-based Practice  6cp
92500 Policy, Power and Politics in Health Care  6cp
Spring semester
92847 Planning and Evaluating Health Services  6cp
92925 Health Services Management and Legal Issues  6cp
Year 3
Autumn semester
CBK90841 Clinical Management Electives  12cp
Spring semester
92603 Managing Quality, Risk and Cost in Health Care  6cp
92612 Research in Health  6cp

Articulation with UTS courses
This course is part of an articulated program made up of the Graduate Certificate in Health Services Management (C11107) (see page 438), the Graduate Diploma in Health Services Management (C17048) (see page 409) and the Master of Health Services Management (C0143v5 Master of Laws
Award(s): Master of Laws (LLM)
UAC code: 942401 (Autumn semester), 945401 (Spring semester)
CRICOS code: 001125A
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The UTS Master of Laws (LLM) caters to the changing demands of the legal profession. Providing the opportunity for law graduates to specialise in particular areas that are relevant to their area of legal practice, the UTS LLM is vocationally relevant and intellectually rewarding.

Close interaction between the legal profession and UTS: Law guarantees a close match between a first-class education and a marketable postgraduate legal qualification. Classes are taught by a mix of practising professionals, full-time academic staff and international visiting academics, and opportunities for cross-institutional study, both inside and outside Australia, are encouraged.

Career options
Specialisation and development of expertise leads to careers in a range of sought-after specialist vocations in the practice of law.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

A relevant, appropriate first degree is the Bachelor of Laws or Juris Doctor. Students with a Bachelor of Laws from a non-common law country may be required to complete 78103 Common Law Legal Traditions. Students who have graduated with a Shari’a law degree are not eligible to apply for this course. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students who have successfully completed the Master of Law and Legal Practice, the Master of Dispute Resolution (C04145) (see page 329) or the Master of International Law (C044149) (see page 351) at UTS, or equivalent postgraduate law studies at a recognised tertiary institution, may, in line with UTS: Law policy, apply for a maximum of one quarter of the credit-point value of the course in exemptions. As Master of Laws subjects are 8 credit points in value, students may apply for exemptions not exceeding 8 credit points within the course.

Students who have successfully completed the Juris Doctor (C04236) (see page 354) at UTS and have completed 6 credit point Master of Laws equivalent subjects within the Juris Doctor may apply for these subjects to be credited towards the Master of Laws, up to a maximum of 18 credit points. Such students will have this credit applied towards, and must complete, the Options (CBK90419) choice block.

Students who completed 8-credit-point postgraduate electives as part of their Juris Doctor candidature may apply to have these subjects credited towards the Master of Laws, up to a maximum of 24 credit points.

Solicitors with current specialist accreditation from the Law Society of NSW may apply for 8 unspecified credit points of exemption within this course.
Course duration and attendance
The course can be completed in a minimum of one year of full-time or two years of part-time study. Subjects may also be available in Summer session, allowing accelerated progression.

Course structure
From Spring 2008, students undertake six 8-credit-point postgraduate subjects (totalling 48 credit points). (Refer to the course entry in the UTS: Handbook 2007 for the previous course structure. For a current listing of subjects in each course refer to the study package directory. In particular, refer to the correct structure of the Master of Laws major options in CBK90248).

Students may choose to undertake one or two majors, by completing at least three subjects (24 credit points) within the area of the major. Students may also choose not to major in a particular area and instead choose six subjects (48 credit points) from across the major areas.

As part of this course, students must complete the subject 78100 Postgraduate Legal Research. This subject can be included in any of the majors or choiceblocks. Students from a non-common law background are also required to enrol in the subject 78103 Common Law Legal Traditions.

Course completion requirements
Select 48 credit points from the following options: 48cp
MAJ09390 Corporate and Commercial Law 24cp
MAJ09392 International Law 24cp
CBK90400 Options (Law) 24cp
CBK90412 Options B 24cp
MAJ09400 Intellectual Property 24cp
MAJ09410 Global Business Law 24cp
MAJ09425 Dispute Resolution 24cp
Total 48cp

Course program
The list of available majors is shown below.
Most subjects are timetabled over a two-year period and consequently not all subjects listed are offered in any one year. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at:
http://timetable.uts.edu.au

List of majors
MAJ09390 Corporate and Commercial Law 24cp
MAJ09425 Dispute Resolution 24cp
MAJ09392 International Law 24cp
MAJ09400 Intellectual Property 24cp
MAJ09410 Global Business Law 24cp

Levels of award
To qualify for honours in the Master of Laws, candidates must attain a weighted average mark of 80 per cent across all subjects attempted.

Further study at UTS
Students in this course may apply for admission into the Doctor of Juridical Science (SJD) (C02027) (see page 474) after completion of 48 credit points of options. SJD applicants must provide satisfactory evidence of their ability to undertake advanced research appropriate to a doctoral program. Candidates do not take out the Master of Laws, rather subjects undertaken within the masters are applied towards the SJD.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04145v3 Master of Dispute Resolution
Award(s): Master of Dispute Resolution (MDR)
UAC code: 942402 (Autumn semester), 945402 (Spring semester)
CRICOS code: 027886A
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The UTS Dispute Resolution program, a first in Australia, focuses on the wide range of non-adversarial dispute resolution processes. The subjects available accommodate distinct streams that include commerce, family, community and court-annexed programs.

Dispute resolution at UTS is focused on experiential learning involving a fusion of critical and reflective thinking paradigms with the application of theory in practical, work-based contexts.

The mixture of experience-based learning and formal lectures by professional practitioners give students a hands-on understanding of the full range of dispute resolution processes, from negotiation through to the consensual processes to decisional theory.

Career options
Career options include arbitrator, manager, negotiator and professionals in a wide range of areas such as health and education, government and industrial relations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one year of full-time or two years of part-time study.

The core introductory subject is offered in intensive block mode over several days of attendance at the beginning of semester. The other subjects are taught in intensive block mode over several full days of lectures, workshops and seminars.

Course structure
The course requires completion of a core introductory subject (6 credit points) plus a further seven subjects (42 credit points).

Subjects are regularly timetabled but not all subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at:
http://timetable.uts.edu.au

Course completion requirements
79771 Dispute Resolution 6cp
Select 42 credit points from the following options: 42cp
77746 Advanced Mediation 6cp
77752 Commercial Arbitration (Domestic) 6cp
77792 Crisis Negotiation 6cp
77761 Dispute Resolution in Commerce 6cp
77760 Family Dispute Resolution 6cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

77751 International Commercial Arbitration 6cp
77745 Negotiation 6cp
77740 Research Paper 6cp
77967 Workplace Dispute Resolution 6cp
STM90111 Research project (Law FG) 12cp
77783 International Commercial Dispute Resolution 6cp
77850 Psychology and Dispute Resolution 6cp
78029 Mediation Practice 6cp
78173 Dispute Resolution in Civil Practice 6cp
78138 Facilitation 6cp
Total 48cp

Levels of award
To qualify for honours in the master’s program, candidates must attain a weighted average mark of 75 per cent across all subjects attempted and complete the two-semester research project.

Articulation with UTS courses
Graduate Certificate in Dispute Resolution (C11125) (see page 443) candidates may internally transfer to the Master of Dispute Resolution. Subjects undertaken within the graduate certificate are recognised within the master’s.

Other information
Further information for future students is available from: telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from: telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04147v4 Master of Legal Studies
Award(s): Master of Legal Studies (MLS)
UAC code: 941406 (Summer session), 942406 (Autumn semester), 945406 (Spring semester)
CRICOS code: 021717M
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
The Master of Legal Studies is not a professional legal qualification. Applicants seeking to be admitted to practice should refer to the Juris Doctor (C04236) (see page 354) or the Bachelor of Laws (C10124) (see page 179). Students may apply for some subjects undertaken within the Master of Legal Studies to be credited towards these degrees.

Overview
The UTS: Law Legal Studies program meets the growing market need for non-law graduates working in the public and private sectors to have a thorough understanding of the legal and regulatory framework in which they operate. This includes an understanding of foundational legal concepts such as contract law and tort law, methods of legal research and theory, as well as the opportunity to develop expertise in specialist legal areas such as compliance and intellectual property law.

The Master of Legal Studies attracts students from a wide variety of backgrounds interested in expanding their skills to include an understanding of the legal framework, including professionals from the insurance, human resources, banking and finance industries, managers and administrators, and HSC legal studies teachers.

Career options
The program particularly benefits accountants and auditors, business development managers, compliance managers, engineers and architects, financial advisers and planners, IT professionals, law enforcement officers, paralegals, policy officers in the public, private and non-profit sectors, property developers, and public sector managers and administrators (especially those who work in Department of Foreign Affairs and Trade, Department of Communications, Information Technology and the Arts, the Attorney-General’s Department and Treasury).

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

An applicant’s bachelor’s degree must be in a discipline other than law. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-66;

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one year of full-time or two years of part-time study. Subjects may also be available in Summer session, allowing accelerated progression.

The course features a variety of attendance patterns, including distance teaching (requiring no on-campus attendance), intensive block attendance and weekly on-campus evening classes.

Course structure
The course requires completion of core subjects (30 credit points), including two compulsory introductory subjects and a choice of two further foundation subjects, plus a further three option subjects (18 credit points). (Refer to the course entry in the LITS: Handbook 2007 for the pre-2008 course structure. For a current listing of subjects in each course, refer to the study package directory. In particular, refer to the correct structure of the Legal Studies major in CBK09051).

Students may also elect to undertake up to a maximum of 12 credit points of postgraduate subjects offered in other faculties in the University. Enrolment in non-law subjects is at the discretion of UTS: Law and the faculty in which the subject is offered.

Core subjects are timetabled in Autumn and Spring semesters and option subjects are regularly timetabled but not all option subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at:
http://timetable.uts.edu.au

Course completion requirements
STM90069 Core subjects
CBK090588 Options
Total 48cp

Articulation with UTS courses
Subjects undertaken within the Graduate Diploma in Legal Studies (C07074) (see page 412) are recognised within the Master of Legal Studies. Students enrolled in the graduate diploma may apply to internally transfer to the master’s program. Candidates are not awarded the graduate diploma but subjects undertaken are applied towards the master’s.

Subjects undertaken within the Juris Doctor (C04236) (see page 354) are recognised within the Master of Legal Studies. Students enrolled in the Juris Doctor may apply to internally transfer to the master’s program. Candidates are not awarded the Juris Doctor but subjects undertaken are applied towards the master’s.

Other information
Further information for future students is available from:

telephone +61 2 9514 3660
email law@uts.edu.au

Further information for current students is available from:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au
C04149v4 Master of International Law

Award(s): Master of International Law (MIL)
UAC code: 942404 (Autumn semester), 945404 (Spring semester)
CRICOS code: 03329K
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The Master of International Law allows lawyers and other professionals to extend their knowledge and gain expertise in the expanding and dynamic area of international law.

Course aims

This course aims to identify topics which underpin areas of study in international law, namely:

- multilateral liberalisation of trade in goods and services: GATT 1994, GATS and WTO
- the role of regional trading blocs: NAFTA, ASEAN, EU, CER, MERCOSUR
- exceptions to liberalisation: agriculture, textiles and clothing, sanitary and phyto-sanitary measures, music and film
- anti-dumping and countervailing duties in a global economy
- foreign investment and the multilateral investment agreement
- regulation of financial markets: the Asian experience
- international commercial arbitration
- dispute resolution and the WTO
- intellectual property and trade: TRIPS.

Career options

Career options include lawyer, adviser to government or business specialising in international law issues, work within an international NGO, the United Nations or organisations dedicated to development, lobbyist, activist, and public interest researcher.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: academic, iBT: 80-100 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course can be completed in a minimum of one year of full-time or two years of part-time study.

Course structure

Two streams are available in the course:

- Students who hold an undergraduate legal qualification must complete eight option subjects (48 credit points).
- Students who hold an undergraduate degree in a discipline other than law must complete one core introductory subject (6 credit points) followed by an additional seven subjects (42 credit points).

Students who have completed an undergraduate legal qualification should contact the UTS Student Centre during enrolment if their study plan includes the Non-law graduate entrant stream (STM90115).

Course completion requirements

Select one of the following:
- STM90115 Non-law graduate entrant stream 48cp
- STM90114 Law graduate entrant stream 48cp
- Total 48cp

Non-law graduate entrants

<table>
<thead>
<tr>
<th>Core subject</th>
<th>1 x 6-credit-point subject</th>
<th>Total 6 credit points</th>
</tr>
</thead>
</table>

Master of International Law

<table>
<thead>
<tr>
<th>8 x 6-credit-point options</th>
<th>Total 48 credit points</th>
</tr>
</thead>
</table>

Law graduate entrants

<table>
<thead>
<tr>
<th>Core subject</th>
<th>1 x 6-credit-point subject</th>
<th>Total 6 credit points</th>
</tr>
</thead>
</table>

Master of International Law

<table>
<thead>
<tr>
<th>7 x 6-credit-point options</th>
<th>Total 42 credit points</th>
</tr>
</thead>
</table>

Course program

Subjects are regularly timetabled but not all subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au

Levels of award

To qualify for honours in the master’s program candidates must complete the two-semester research project and attain a weighted average mark of 75 per cent across all subjects attempted.

Articulation with UTS courses

Graduate Certificate in International Law (C11129) (see page 445) candidates may internally transfer to the master’s program. Subjects undertaken within the graduate certificate are recognised within the master’s.

Other information

Further information for current students is available from:
telephone +61 2 9514 3660
email law@uts.edu.au
Further information for future students is available from:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04157v8 Master of Information Technology

Award(s): Master of Information Technology (MInfTech)
UAC code: 942601 (Autumn semester), 945601 (Spring semester)
CRICOS code: 04091C
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview

This course is designed to enable students to achieve a comprehensive and greater understanding of information technology in specialised technical or management areas. The wide range of specialisations allow students to tailor the course to satisfy their career development needs.
It is essential to keep IT knowledge and skills up-to-date. This course provides students with an enhanced understanding of the business context and technical developments shaping contemporary information and communications technology (ICT), and equips them to meet the challenges of working in the IT industry.

Course aims

The course provides students with an understanding of the advanced concepts of information technology in a commercial environment so they can contribute to the development of IT solutions in their organisation.

Career options

Career options include a wide variety of positions in the IT industry, including business intelligence expert, e-business developer, games developer, information systems manager, IT project manager, movie animator, software architect, software quality/testing specialist and systems analyst.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

For this course an equivalent degree can be from any discipline (applicants for this program may apply as a non-IT graduate or an IT graduate).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Applicants with a recognised bachelor's degree in computing or information technology (or equivalent) may apply for credit recognition equivalent to the 24-credit-point Graduate Certificate in Information Technology (C11142) (see page 447).

Course duration and attendance

The course duration is one-and-a-half years of full-time or three years of part-time study.

Course structure

This course totals 72 credit points, comprising eight core subjects and 18-24 credit points of electives selected from a defined list. The number of electives depends on whether students choose a 6-credit-point or 12-credit-point research project.

Students articulating from pre-2008 version(s) of the Graduate Certificate or Graduate Diploma in Information Technology are typically eligible for advanced standing of 24 credit points equivalent to the subjects in STM90695 (thus requiring 48 credit points to complete the course).

Course completion requirements

Select one of the following:

- STM90695 Core subjects 24cp
- CBK90802 Choice 24cp
- 32144 Technology Research Preparation 6cp
- 32563 IT Professional and Society 6cp
- 32541 Project Management 6cp
- CBK90844 Research choice 12cp
- CBK90845 Choice 18cp
- Total 72cp

Course program

The following examples show typical full-time programs for IT graduates, with and without credit recognition, and for non-IT graduates.

Note: Electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

IT graduates with credit recognition

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32144 Technology Research Preparation 6cp</td>
<td>32541 Project Management 6cp</td>
<td>Select 12 credit points of electives 12cp</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90844 Research choice 12cp</td>
<td>32563 IT Professional and Society 6cp</td>
<td>Select 6 credit points of electives 6cp</td>
<td></td>
</tr>
</tbody>
</table>

IT graduates without credit recognition

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32144 Technology Research Preparation 6cp</td>
<td>32541 Project Management 6cp</td>
<td>Select 12 credit points of electives 12cp</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>32563 IT Professional and Society 6cp</td>
<td>Select 18 credit points of electives 18cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90844 Research choice 12cp</td>
<td>Select 12 credit points of electives 12cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Non-IT graduates

Year 1

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32555 Fundamentals of Software Development 6cp</td>
<td>32524 LANS and Routing 6cp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32606 Database 6cp</td>
<td>32144 Technology Research Preparation 6cp</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring semester</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>32557 Enabling Enterprise Information Systems 6cp</td>
<td>32541 Project Management 6cp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32563 IT Professional and Society 6cp</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90844 Research choice 12cp</td>
<td>Select 6 credit points of electives 6cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Articulation with UTS courses

This course is part of an articulated program of study comprising the Graduate Certificate in Information Technology (C11142) (see page 447), the Graduate Diploma in Information Technology (C0655) (see page 390), the Master of Information Technology and the Master of Information Technology (Extended) (C04218) (see page 340).

Professional recognition

Graduates qualify for professional-level membership of the Australian Computer Society.

Other information

Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

332 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C04158v3 Master of Interactive Multimedia

Overview
This course is designed for students from a wide variety of disciplines who may or may not already be working in areas of multimedia. For this reason it contains a considerable number of elective subjects to enable students to gain new areas of knowledge or broaden existing areas.

Course aims
A defining characteristic of multimedia education at UTS is the integration of theory and practice in all of the relevant disciplines and professions. The course aims to develop students' professional skills for direct application in the workplace, while providing a solid overview and understanding of the social, historical and industrial role of multimedia communication technologies. Graduates are prepared for a career in a rapidly growing and changing industry.

Career options
Career options include positions in digital media, the mobile web, information architecture, interaction design, new media, web design, web development and web project management. Various events are organised throughout the year to showcase student work and give students the opportunity to speak with industry professionals, including recruiters.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Unless applicants have an honours degree, or equivalent, they require:
- a three-year bachelor's degree (or equivalent), plus either two years of relevant professional experience or a credit average or better in a Graduate Certificate or Graduate Diploma in Interactive Multimedia, or
- outstanding professional experience at a senior level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a writing score of 6.0; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Given the interdisciplinary focus and teamwork emphasis of this course, credit recognition and subject exemptions are not normally granted for other postgraduate study or work experience.

Course duration and attendance
The course can normally be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
This course comprises 72 credit points of study, made up of six core subjects, four elective subjects and a digital media project.

Industrial training/professional practice
Industrial training is available to both local and international students as a separate work-based learning course. Students can enrol into the Diploma in Information Technology Professional Practice (C20049) (see page 299) after completing a minimum of four core subjects. Students can be assisted in finding an internship, or may wish to have current relevant industry work experience recognised.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>95563</td>
<td>Digital Media Development Process</td>
<td>6cp</td>
</tr>
<tr>
<td>95564</td>
<td>Digital Media Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>95565</td>
<td>Digital Graphics and the Still Image</td>
<td>6cp</td>
</tr>
<tr>
<td>95566</td>
<td>Digital Information and Interaction Design</td>
<td>6cp</td>
</tr>
<tr>
<td>95567</td>
<td>Digital Media in Social Context</td>
<td>6cp</td>
</tr>
<tr>
<td>95568</td>
<td>Digital Sound and the Moving Image</td>
<td>6cp</td>
</tr>
<tr>
<td>95569</td>
<td>Digital Media Project</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90303</td>
<td>Electives (Interactive Multimedia)</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 72cp</td>
</tr>
</tbody>
</table>

Course program
An example program for a full-time student commencing in Autumn semester is shown below. Elective subjects may be chosen from across the University and must be approved by the multimedia program leader and then the relevant faculty.

Year 1
Autumn semester
- 95563 Digital Media Development Process 6cp
- 95564 Digital Media Technologies 6cp
- 95565 Digital Graphics and the Still Image 6cp
- 95567 Digital Media in Social Context 6cp

Spring semester
- 95566 Digital Information and Interaction Design 6cp
- 95568 Digital Sound and the Moving Image 6cp
- Select 12 credit points of electives 12cp

Year 2
Autumn semester
- 95569 Digital Media Project 12cp
- Select 12 credit points of electives 12cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Interactive Multimedia (C11143) (see page 448), the Graduate Diploma in Interactive Multimedia (C07078) (see page 412), and the Master of Interactive Multimedia.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
http://niml.iml.uts.edu.au

C04160v6 Master of Science in Internetworking

Overview
This course is intended for computing science, information technology or engineering graduates, with or without networking experience, who wish to learn or extend their knowledge of networking and...
networking technologies. As students come from a variety of backgrounds, there is a degree of subject choice in the program to meet individual needs.

The internetworking program provides practical, hands-on learning experience using resources provided by Cisco Systems for internetworking, including routing, switching, security, wireless and VoIP. Advanced electives in internetworking are available. The program covers all aspects of the organisational use of networks: design, implementation, security, management, end systems and applications. This course allows students to develop multiple skills across the internetworking field, according to interest and elective choices, for example, switching and routing, systems and network management and analysis, network security, mobility, and web services development.

**Course aims**

This program aims to:

- meet the needs of industry for networking specialists
- target a number of industry-based certifications: CCNA (Cisco Certified Network Associate) and CCNP (Cisco Certified Network Professional), Cisco Wireless LAN Support Specialist and Cisco Certified Security Professional
- retrain IT professionals wishing to move into networking and internetworking
- provide a thorough and practical grounding in networking, network design, network administration and network management
- provide a solid foundation for the writing of networked applications using Unix, Java and WWW technologies, and
- meet students’ needs by allowing specialisation through project work and subject choice.

**Career options**

Career options include applications developer, client-server architect, network administrator, network architect, network designer, network integrator, network systems programmer, programmer analyst, security architect, system support analyst or a role in data communications.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. Previous qualifications are preferred in computing science, information technology, computer engineering, telecommunications, or a related discipline.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Assumed knowledge**

Two years’ experience in networking or in another position in the IT industry is desirable. Applicants without work experience are also considered.

**Credit recognition**

Exemptions are granted only for subjects at the graduate certificate level. There are no exemptions granted for the networking subjects 32524 and 32521 without the successful completion of the challenge test for each of the above. A challenge test is required even for holders of a CCNA or CCNP certification and those who have passed the CCNA curriculum in TAFE Certificate IV and/or Diploma. These challenge tests are always held in the week prior to the commencement of classes.

**Course duration and attendance**

The course duration is one-and-a-half years of full-time or three years of part-time study.

**Course structure**

This course totals 72 credit points of study, including 48 credit points for completion of the graduate diploma, plus a further 24 credit points of elective subjects, comprising either optional research methodologies and project subjects or elective coursework subjects. In some circumstances, it may be possible to choose two electives from outside the list, provided they are approved by the course coordinator. Where applicable, project topics should be relevant to students’ professional career goals and should be an area of current research interest in their area of study.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90225</td>
<td>Core subjects choice</td>
<td>42cp</td>
</tr>
<tr>
<td>CBK90476</td>
<td>Internetworking choice</td>
<td>6cp</td>
</tr>
<tr>
<td>STM90729</td>
<td>Core subjects</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>72cp</strong></td>
</tr>
</tbody>
</table>

**Course program**

A typical full-time program for students commencing in Autumn semester is shown below. Students can enrol in 32521 WANs and VLANs as either a core subject or an elective. However, as this subject has a prerequisite of 32524 LANS and Routing, it cannot be taken during the first semester of study. Full-time students are advised to enrol in 32144 Technology Research Preparation in their first semester.

**Note:** Subjects listed as electives may not be offered if there is insufficient demand or a lack of necessary resources.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>32118</td>
<td>Mobile Communications and Computing</td>
<td>6cp</td>
</tr>
<tr>
<td>32524</td>
<td>LANS and Routing</td>
<td>6cp</td>
</tr>
<tr>
<td>32547</td>
<td>UNIX Systems Programming</td>
<td>6cp</td>
</tr>
<tr>
<td>32144</td>
<td>Technology Research Preparation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90476</td>
<td>Internetworking choice</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 18 credit points of options</td>
<td>18cp</td>
<td></td>
</tr>
</tbody>
</table>

**Year 2**

**Autumn semester**

Select 24 credit points of options 24cp

**Articulation with UTS courses**

This course is part of an articulated program comprising the Graduate Certificate in Internetworking (C11145) (see page 449), the Graduate Diploma in Internetworking (C07080) (see page 413), the Master of Science in Internetworking and the Master of Science in Internetworking (Extended) (C04224) (see page 341).

**Professional recognition**

Graduates qualify for professional-level membership of the Australian Computer Society (ACS). Students can prepare for Cisco CCNA and CCNP industry certification.

**Other information**

Further information is available from:

- Building 10 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

334 Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C04161v8 Master of Business in Information Technology Management

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>32553</td>
<td>Leadership and People Management</td>
<td>6cp</td>
</tr>
<tr>
<td>32930</td>
<td>Management Research Methods</td>
<td>6cp</td>
</tr>
<tr>
<td>32703</td>
<td>Information Technology Strategy</td>
<td>6cp</td>
</tr>
<tr>
<td>32005</td>
<td>Strategic Leadership for Innovation</td>
<td>6cp</td>
</tr>
<tr>
<td>32932</td>
<td>Management Research Project</td>
<td>6cp</td>
</tr>
<tr>
<td>32007</td>
<td>Strategic Information Technology Investment</td>
<td>6cp</td>
</tr>
<tr>
<td>32561</td>
<td>Managing Organisational Change</td>
<td>6cp</td>
</tr>
<tr>
<td>32562</td>
<td>Strategic Business Management</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90639</td>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 72cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Course program**

A typical part-time program is shown below.

Note: Subjects listed as electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources. Students can apply to the course coordinator to enrol in an alternative subject as an elective.

**Year 1**
- **Autumn semester**
  - 32007 Strategic Information Technology Investment 6cp
  - 32553 Leadership and People Management 6cp
- **Spring semester**
  - 32005 Strategic Leadership for Innovation 6cp
  - Select 6 credit points of electives 6cp

**Year 2**
- **Autumn semester**
  - 32561 Managing Organisational Change 6cp
  - Select 6 credit points of electives 6cp
- **Spring semester**
  - 32562 Strategic Business Management 6cp
  - Select 6 credit points of electives 6cp

**Year 3**
- **Autumn semester**
  - 32932 Management Research Project 6cp
  - Select 6 credit points of electives 6cp
- **Spring semester**
  - 32703 Information Technology Strategy 6cp
  - 32930 Management Research Methods 6cp

**Articulation with UTS courses**

This course is part of an articulated program comprising the Graduate Certificate in Information Technology Management (C11138) (see page 446), the Graduate Diploma in Information Technology Management (C06060) (see page 391), and the Master of Business in Information Technology Management.

**Other information**

Further information is available from:
- Building 10 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

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**Course duration and attendance**

The course is offered on a three-year, part-time basis.

**Course structure**

Students complete 72 credit points of study, made up of seven core subjects, a research project and electives.

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**Note(s)**

This course is not offered to international students.

**Overview**

This course focuses on the role of technology in the strategic leadership of organisations. It provides a well-balanced selection of subjects, drawn from advanced information technology and business domains, in an integrated program that is relevant to the current and future demands of the IT industry and business organisations.

IT professionals who have aspirations to senior IT roles and/or business leadership positions in organisations benefit from this course. Graduates are able to contribute constructively to the effective utilisation of information technology with respect to the strategic leadership of an organisation. IT managers who already have significant levels of experience are challenged by this course and gain new perspectives on the effective leadership of organisations in the digital era.

**Course aims**

The course aims to develop:

- the professional skills necessary for successfully undertaking strategic leadership roles in a variety of organisational contexts, and
- a conceptual and analytical understanding of an organisation’s needs in a dynamic and challenging global knowledge economy.

**Career options**

Graduates can be employed in the full range of organisations - private, public and community sector organisations. Graduates can prepare to take on business leadership roles with the view to gaining executive level appointments in these organisations.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Appropriate qualifications are the successful completion of the Graduate Diploma in Information Technology Management (C06060) (see page 391), or the successful completion of the Graduate Certificate in Information Technology Management (C11138) (see page 446) with passes in all subjects and at least a credit average over the entire course. Alternatively applicants require a recognised bachelor’s degree (or equivalent) in an appropriate discipline such as information technology or commerce and a minimum of five years’ professional work experience in the IT industry, plus some supervisory experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C, or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

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This course is not offered to international students.
C04203v4 Master of Arts in Information and Knowledge Management

Award(s): Master of Arts in Information and Knowledge Management (MA)
UAC code: 942516 (Autumn semester), 945516 (Spring semester)
CRICOS code: 00658J
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Arts in Information and Knowledge Management is part of an articulated program designed for people who need to provide and manage information services and/or manage and use information and knowledge effectively within organisations.
Graduates of the program have an understanding of the relationship between individuals and information and knowledge practices; contemporary issues, trends, innovations and forces for change in information practice; and ethical practice and the ability to operate with integrity, rigour, self-reliance and cooperation in professional contexts.

Course aims
Graduates of the program have:
- demonstrated sophisticated information handling skills appropriate for professional practice in diverse environments
- an understanding of how to achieve organisational objectives by creating, sharing and using knowledge
- an understanding of contemporary issues, trends, innovations and forces for change in information and knowledge practices, as well as the broader political, policy and technological contexts
- an understanding of ethical practice and the ability to operate with integrity, rigour, self-reliance and cooperation in professional contexts
- demonstrated creative, critical, reflective problem-solving capabilities in the context of their professional roles and a commitment to lifelong learning, and
- demonstrated capabilities in planning and implementing a project.

Career options
Career options include corporate information manager, database designer, electronic information systems manager, information content developer, information designer, knowledge manager, librarian, media researcher, network manager, research officer or records manager.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73 overall with a writing score of 7.0;
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students who have successfully completed one of the graduate diplomas in the articulated program and who are admitted to this course are eligible for credit recognition for completed subjects.

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or equivalent part-time basis.

Course structure
This course requires completion of 72 credit points. Students choose one of three streams: Information Management, Knowledge Management or Records Management. Students choose subjects from a specified list of electives. Students can choose an elective subject beyond the specified list only with the approval of the graduate adviser.
Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
Select 72 credit points from the following options: 72cp
STM90599 Information Management stream 72cp
STM90609 Knowledge Management stream 72cp
STM90513 Records Management stream 72cp
Total 72cp

Course program
Typical course programs are shown below.
Note: the Knowledge Management stream does not have a full-time intake in Spring semester.

Information Management stream, Autumn commencing, full time

Year 1
Autumn semester
57084 Information Architecture and Design 8cp
57148 Discovering and Accessing Information 8cp
57100 People, Information and Knowledge 8cp

Spring semester
57146 Organising Information 8cp
57089 Information Research and Data Analysis 8cp
CBK90517 Electives 8cp

Year 2
Autumn semester
57087 Knowledge Management and the Organisation 8cp
Select one of the following: 16cp
57009 Information and Knowledge Management Project 16cp
STM90654 Master’s option without project 16cp

Information Management stream, Autumn commencing, part time

Year 1
Autumn semester
57148 Discovering and Accessing Information 8cp
57100 People, Information and Knowledge 8cp

Spring semester
57146 Organising Information 8cp
57089 Information Research and Data Analysis 8cp

Year 2
Autumn semester
57084 Information Architecture and Design 8cp
57087 Knowledge Management and the Organisation 8cp

Spring semester
Select one of the following: 4cp
57104 Information and Knowledge Management Project Part A 4cp
57149 Information and Knowledge Management Major Paper 8cp
CBK90517 Electives 8cp

Total 72cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Records Management stream, Autumn commencing, full time

Year 1

Autumn semester
- 57087 Knowledge Management and the Organisation 8cp
- 57181 Recordkeeping Fundamentals 8cp
- 57100 People, Information and Knowledge 8cp

Spring semester
- 57147 Enterprise Content Management 8cp
- 57089 Information Research and Data Analysis 8cp
- 57153 Digital Curation 8cp

Year 2

Autumn semester
Select one of the following: 16cp
- 57009 Information and Knowledge Management Project 16cp
- STM90548 Master's option 16cp
Select 8 credit points of options 8cp

Records Management stream, Autumn commencing, part time

Year 1

Autumn semester
- 57181 Recordkeeping Fundamentals 8cp
- 57100 People, Information and Knowledge 8cp

Spring semester
- 57147 Enterprise Content Management 8cp
- 57153 Digital Curation 8cp

Year 2

Autumn semester
- 57087 Knowledge Management and the Organisation 8cp
Select 8 credit points of options 8cp

Spring semester
- 57089 Information Research and Data Analysis 8cp
- 57153 Digital Curation 8cp

Year 3

Autumn semester
Select one of the following: 12cp
- 57105 Information and Knowledge Management Project Part B 12cp
- 57149 Information and Knowledge Management Major Paper 8cp

Select 8 credit points of options 8cp

Records Management stream, Spring commencing, full time

Year 1

Spring semester
- 57100 People, Information and Knowledge 8cp
- 57147 Enterprise Content Management 8cp

Year 2

Autumn semester
- 57087 Knowledge Management and the Organisation 8cp
- 57181 Recordkeeping Fundamentals 8cp
Select 8 credit points of options 8cp

Spring semester
- 57089 Information Research and Data Analysis 8cp
Select one of the following: 16cp
- 57009 Information and Knowledge Management Project 16cp
- STM90548 Master's option 16cp

Records Management stream, Spring commencing, part time

Year 1

Spring semester
- 57100 People, Information and Knowledge 8cp
- 57147 Enterprise Content Management 8cp

Year 2

Autumn semester
- 57087 Knowledge Management and the Organisation 8cp
- 57181 Recordkeeping Fundamentals 8cp

Spring semester
- 57089 Information Research and Data Analysis 8cp
- 57153 Digital Curation 8cp

Year 3

Autumn semester
Select one of the following: 4cp
- 57104 Information and Knowledge Management Project Part A 4cp
- CBK90415 Elective 8cp
Select 8 credit points of options 8cp

Spring semester
Select one of the following: 12cp
- 57105 Information and Knowledge Management Project Part B 12cp
- 57149 Information and Knowledge Management Major Paper 8cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Diploma in Information Management (C07107) (see page 414), the Graduate Diploma in Knowledge Management (C07105) (not offered in 2013) and the Master of Arts in Information and Knowledge Management.

Professional recognition
Graduates are eligible for professional membership of the Australian Library and Information Association (ALIA).

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04207v2 Master of Engineering Studies Master of Engineering Management
CRICOS code: 047834C
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
This program allows students to complete the Master of Engineering Studies (MEStud) and the Master of Engineering Management (MEM) in two years of full-time study.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
No work experience is required.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Once students have completed the Master of Engineering Management they need to submit an application for credit recognition for two subjects from the Master of Engineering Studies. Students can, therefore, complete the combined program by completing only 84 credit points (14 subjects). The faculty does not grant credit recognition based on work experience.

Course duration and attendance
The course can be completed in two years of full-time study, comprising one year for the Master of Engineering Studies and one year for the Master of Engineering Management. The course is also available part time.

Attendance is available in weekly (normally evenings), block and/or distance modes.

Course structure
To complete the Master of Engineering Studies (MEStud), students must complete eight postgraduate subjects (48 credit points) offered by UTS: Engineering.

To complete the Master of Engineering Management (MEM), students must complete six core subjects (36 credit points) and two elective subjects (12 credit points) as specified under that course, however, two MEM subjects may be exempted based on subjects undertaken in the MEStud. Elective subjects are chosen from postgraduate subjects offered within UTS: Engineering.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90047</td>
<td>MEM stream</td>
<td>48cp</td>
</tr>
<tr>
<td>CBK90030</td>
<td>Major choice</td>
<td>48cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>96cp</td>
</tr>
</tbody>
</table>

Course program
The typical course program comprises the following:
- Year 1: MEStud component (as per C04097) (see page 315)
- Year 2: MEM component (as per C04094) (see page 314).

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04212v2 Master of Animation
Award(s): Master of Animation (MAnim)
UAC code: 942109 (autumn semester)
CRICOS code: 05146J
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
This course provides practising animators and graduates of animation or related fields the opportunity to achieve a master’s degree by a combination of coursework and project work.

The course involves a cross-disciplinary study of animation offered by three course areas: UTS: Information Technology, UTS: Communication and UTS: Design, Architecture and Building. It reflects their teaching strengths in digital design, animation, programming and production. It is the first postgraduate course in Australia to offer a Master of Animation rather than just a major in animation.

Course aims
The course comprises a combination of coursework, research and project work. Coursework areas include traditional film animation, 2D and 3D digital animation, graphic visualisation, object-oriented programming and animation studies, culminating in the production of a short animated work. Animation production is undertaken as project work in the final semester and provides an opportunity for students to explore an area of particular interest or professional benefit. This may be undertaken as individual work or as part of a collaborative team.

Career options
Career options include positions in animation, including animation for the internet, architecture, character design, computer game software design, experimental animation, feature film production, film and television graphics, special effects and storyboard design.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in an area of animation, design, media studies or production, information technology or visual arts.
Applicants must also have a demonstrated interest in animation design, animation studies or animation production. Applicants with considerable professional experience but without formal qualifications may be admitted to the course on the basis of their professional experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Applicants must submit:
- A showreel of one or more animated/moving image works not longer than 10 minutes in total viewing time that demonstrates their capabilities in animation and/or video/film. The showreel should be on DVD (able to play in all regions) and in an accessible file format, e.g. Quick-time/avi or Flash (.swf only). Alternatively, showreels viewable as a linked URL are also accepted. Applicants should include a list of the works and a brief synopsis (not more that 50 words each) for each work/sequence. If applicants worked collaboratively on the works/sequences, they should indicate the role played in the creation of the work/sequence.

- A print portfolio of images that demonstrates other aspects of their ideas and skills for animation and film making. It may include drawings, illustrations, storyboards, the design of 3D objects and visualisations, photomedia, scripts, and other forms of visual expression that explore the moving image. The portfolio should consist of a maximum of 10 pages in either A4 printed form, or as an Adobe PDF Portfolio placed onto the showreel disc or linked to the URL.

- A CV, that must clearly articulate their design-related experience, with a personal statement that should be a maximum of 300 words and must address the reasons for wishing to undertake a Master of Animation, in either printed form, or as an Adobe PDF file placed onto the showreel disc or linked to the URL.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.
Course structure
The course comprises 72 credit points of study, made up of 24 credit points of project subjects, 30 credit points of core subjects and 18 credit points from an approved program of elective subjects. Each student is assisted by the course coordinator to develop a pattern of study best suited to their needs.

Course completion requirements
STM90081 Core subjects 54cp
CBK90464 Animation subjects choice 18cp
Total 72cp

Course program
The example program below is for a full-time student commencing in Autumn semester.

Year 1
Autumn semester
57130 Animation Concepts Seminar 6cp
32543 3D Animation 6cp
57108 Film Animation 6cp
89200 Graphic Visualisation 6cp

Spring semester
89201 Animation Genres Seminar 6cp
Select 18 credit points from the following options: 18cp
32501 Computer Graphics 6cp
32510 Principles of Object-oriented Programming in C++ 6cp
32003 Computer Game Design 6cp
57169 Moving Image 6cp
57171 Writing for the Screen 6cp
57170 Sound and Interaction 6cp
89204 2D Digital Animation 6cp
89202 3D Digital Animation 1 6cp
89203 3D Digital Animation 2 6cp

Year 2
Autumn or Spring semester
Select 24 credit points from the following options: 24cp
89990 Animation Project 24cp
89991 Animation Project A 12cp
89992 Animation Project B 12cp

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C04218v5 Master of Information Technology (Extended)
Award(s): Master of Information Technology (MiniTech)
UAC code: 942600 (Autumn semester), 945600 (Spring semester)
CRICOS code: 003204E
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
This course is designed to enable students to achieve a comprehensive and greater understanding of information technology in specialised technical or management areas. The wide range of specialisations allows students to tailor the course to satisfy their career development needs. The extended master's allows students to study in greater depth in their chosen field.

It is essential to keep IT knowledge and skills up-to-date. This course provides students with an enhanced understanding of the business context and technical developments shaping contemporary information and communications technology (ICT) and equips them to meet the challenges of working in the IT industry.

Course aims
The course provides students with an understanding of the advanced concepts of information technology in a commercial environment so they can contribute to the development of IT solutions in their organisation.

Career options
Career options include a wide variety of positions in the IT industry, including business intelligence expert, e-business developer, games developer, information systems manager, IT project manager, movie animator, software architect, software quality / testing specialist, and systems analyst.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

For this course an equivalent degree can be from any discipline (as applicants for this program may apply as a non-IT graduate or an IT graduate).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Applicants with a recognised bachelor's degree in computing or information technology (or equivalent) may apply for credit recognition equivalent to the 24-credit-point Graduate Certificate in Information Technology (C11142) (see page 447).

Course duration and attendance
The course duration is two years of full-time or four years of part-time study.

Course structure
The course comprises 96 credit points, made up of eight core subjects and 42-48 credit points of electives selected from a defined list. The number of electives depends on whether students choose a 6-credit-point or 12-credit-point research project.

Students articulating from pre-2008 version(s) of the Graduate Certificate or Graduate Diploma in Information Technology are typically eligible for advanced standing of 24 credit points equivalent to the subjects in STM90695 (requiring 72 credit points to complete the course).

Course completion requirements
Select one of the following: 24cp
STM90069 Core subjects
CBK90802 Choice
32144 Technology Research Preparation 6cp
32541 Project Management 6cp
32563 IT Professional and Society 6cp
CBK90844 Research choice 12cp
CBK90846 Choice 42cp
Total 96cp

Course program
The following examples show typical full-time programs for IT graduates, with and without credit recognition, and for non-IT graduates.

Note: Electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.
IT graduates with credit recognition

Year 1

Autumn semester
32144 Technology Research Preparation  6cp
32541 Project Management  6cp
Select 12 credit points of electives  12cp

Spring semester
32563 IT Professional and Society  6cp
Select 18 credit points of electives  18cp

Year 2

Autumn semester
CBK90844 Research choice  12cp
Select 12 credit points of electives  12cp

IT graduates without credit recognition

Year 1

Autumn semester
32144 Technology Research Preparation  6cp
32541 Project Management  6cp
Select 12 credit points of electives  12cp

Spring semester
32563 IT Professional and Society  6cp
Select 18 credit points of electives  18cp

Year 2

Autumn semester
Select 24 credit points of electives  24cp

Spring semester
CBK90844 Research choice  12cp
Select 12 credit points of electives  12cp

Non-IT graduates

Year 1

Autumn semester
32555 Fundamentals of Software Development  6cp
32524 LAINS and Routing  6cp
32606 Database  6cp
32144 Technology Research Preparation  6cp

Spring semester
32557 Enabling Enterprise Information Systems  6cp
32563 IT Professional and Society  6cp
32541 Project Management  6cp
Select 6 credit points of electives  6cp

Year 2

Autumn semester
Select 24 credit points of electives  24cp

Spring semester
CBK90844 Research choice  12cp
Select 12 credit points of electives  12cp

Articulation with UTS courses

This course is part of an articulated program of study comprising the Graduate Certificate in Information Technology (C11142) (see page 447), the Graduate Diploma in Information Technology (C06058) (see page 390), the Master of Information Technology (C04137) (see page 331) and the Master of Information Technology (Extended).

Professional recognition

Graduates qualify for professional-level membership of the Australian Computer Society.

Other information

Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04224v2 Master of Science in Internetworking (Extended)

Award(s): Master of Science in Internetworking [MSc]
UAC code: 942608 (Autumn semester), 945608 (Spring semester)
CRICOS code: 055279C
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview

This course is intended for computing science, information technology or engineering graduates, with or without networking experience, who wish to learn or extend their knowledge of networking and networking technologies. As students come from a variety of backgrounds, there is a degree of subject choice in the program to meet individual needs.

The internetworking program provides students with a practical, hands-on learning experience using resources provided by Cisco Systems for internetworking including routing, switching, security, wireless and VoIP. Advanced electives in internetworking are available. The program covers all aspects of the organisational use of networks: design, implementation, security, management, end systems and applications.

This course allows students to develop multiple skills across the internetworking field, according to interest and elective choices, for example, switching and routing, systems and network management and analysis, network security, mobility and web services development.

The course allows students wishing to prepare for CCNP to complete these subjects over 18 months, rather than 12 months, meeting the prerequisite requirements more effectively. Additionally, it provides research-oriented students with the opportunity to complete a larger thesis.

With the extended program, students can pursue interests in project management and software engineering. Relevant electives in business studies and law are also options for those students who wish to multi-skill across disciplines.

Course aims

This program aims to:
• meet the needs of industry for networking specialists
• target a number of industry-based certifications: CCNA (Cisco Certified Network Associate), CCNP (Cisco Certified Network Professional), Cisco Wireless LAN Support Specialist, and Cisco Certified Security Professional
• retrain IT professionals wishing to move into networking and internetworking
• provide a thorough and practical grounding in networking, network design, network administration and network management
• provide a solid foundation for the writing of networked applications using Unix, Java and WWW technologies, and
• meet students' needs by allowing specialisation through project work and subject choice.

Career options

Career options include applications developer, client server architect, data communications, network administrator, network architect, network designer, network integrator, network systems programmer, programmer analyst, security architect and system support analyst.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications are preferred in computing science, information technology, computer engineering, telecommunications, or a related discipline.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Internetworking (CI1145) (see page 449), the Graduate Diploma in Internetworking (C07080) (see page 413), the Master of Science in Internetworking (C04160) (see page 333) and the Master of Science in Internetworking (Extended).

Professional recognition
Graduates qualify for professional-level membership of the Australian Computer Society (ACS). Students can prepare for Cisco CCNA and CCNP industry certification.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04226v4 Master of Business in Operations and Supply Chain Management
Award(s): Master of Business in Operations and Supply Chain Management (MBus)
CRICOS code: 055273J
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
New technology, particularly in the area of information, new management approaches and the pressure of global competition, has placed a premium on those who have a broad understanding of how to plan and manage complex business processes. The Master of Business in Operations and Supply Chain Management is designed for those who wish to gain significant insight and skills in these areas. The course is designed to cater for the needs of those employed in all sectors of business.

Course aims
The course provides professionals with advanced value chain management skills and the knowledge to enhance their understanding of the nature and contribution of the operations management, supply chain management and procurement functions at a professional level.

Career options
Career options include positions in operations management, service operations management, supply chain management and strategic procurement.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
The course totals 72 credit points and consists of a combination of core and elective subjects.

Course completion requirements
Select 72 credit points from the following options: 72cp

- STMS0754 Standard option (Operations Supply Chain Management) 72cp
- STM90753 Procurement option (Operations Supply Chain Management) 72cp

Total 72cp

Course program
The course program is shown below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21741</td>
<td>Managing Operations</td>
<td>6cp</td>
</tr>
<tr>
<td>21743</td>
<td>Business Excellence</td>
<td>6cp</td>
</tr>
<tr>
<td>21779</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21877</td>
<td>Strategic Procurement</td>
<td>6cp</td>
</tr>
<tr>
<td>21797</td>
<td>Strategic Supply Chain Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21844</td>
<td>Managing Work and People</td>
<td>6cp</td>
</tr>
<tr>
<td>21782</td>
<td>Business Process Integration with ERP</td>
<td>6cp</td>
</tr>
<tr>
<td>21827</td>
<td>Change Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21811</td>
<td>Global Strategic Management</td>
<td>6cp</td>
</tr>
<tr>
<td>77942</td>
<td>Legal Aspects of Contracts Administration</td>
<td>6cp</td>
</tr>
<tr>
<td>35340</td>
<td>Quantitative Management Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>21854</td>
<td>Innovation and Entrepreneurship</td>
<td>6cp</td>
</tr>
<tr>
<td>15315</td>
<td>Project Management Principles</td>
<td>6cp</td>
</tr>
<tr>
<td>21832</td>
<td>Managing for Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>21745</td>
<td>Service Operations Management</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90387</td>
<td>Electives (Law/Business)</td>
<td>6cp</td>
</tr>
<tr>
<td>21779</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21877</td>
<td>Strategic Procurement</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 72cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Operations and Supply Chain Management (C11199) (see page 453), the Graduate Diploma in Operations and Supply Chain Management (C07112) (see page 415) and the Master of Business in Operations and Supply Chain Management.

Professional recognition
The Procurement stream in this course has been accredited to MCIPS standard with the Chartered Institute of Purchasing and Supply. Following completion of the course with the Procurement stream and three years’ relevant work experience, graduates are eligible to apply for MCIPS. More information is available at: www.cipsa.com.au

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/gsb

C04227v3 Master of Business in Human Resource Management

Overview
The Master of Business in Human Resource Management provides students with the in-depth knowledge and skills necessary to contribute at a senior level to their organisation’s human resources and industrial relations functions. The course is designed primarily for individuals who are currently employed, or show the potential for employment, at senior policy-making levels in the fields of human resource management, industrial relations, occupational health and affirmative action.

Course aims
The course aims to provide leading-edge conceptual and practical understandings of human resource management in complex and unfamiliar workplace situations in order to facilitate management decision-making.

Career options
Career options include positions in change management and general management, human resources, and organisational training and development.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study.

Course structure
The course totals 72 credit points and consists of a combination of core and elective subjects.

Course completion requirements

- CBK90386 Electives (HRM) 18cp
- STM90525 Core subjects (HRM) 54cp

Total 72cp
Course program
The course program is shown below.

Students who wish to focus on industrial relations/industrial law may substitute the business elective with an elective from the Faculty of Law, subject to approval by the course coordinator.

21702 Industrial Relations 6cp
21720 Human Resource Management 6cp
21724 Strategic Human Resource Management 6cp
21760 Performance and Talent Management 6cp
21779 Management Skills 6cp
21827 Change Management 6cp
21800 Management and Organisations 6cp
21833 International Human Resources Management 6cp
21844 Managing Work and People 6cp

Select 18 credit points from the following options: 18cp
21741 Managing Operations 6cp
21811 Global Strategic Management 6cp
21832 Managing for Sustainability 6cp
21854 Innovation and Entrepreneurship 6cp
21856 Career and Portfolio Development 6cp
77942 Legal Aspects of Contracts Administration 6cp
CBK90387 Electives (Law / Business) 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Human Resource Management (C11198) (see page 453), the Graduate Diploma in Human Resource Management (C07113) (see page 416) and the Master of Business in Human Resource Management.

Professional recognition
Students completing this degree are eligible to apply to the Australian Human Resources Institute (AHRI) for the Professional Member (MAHRI) status and / or advancement to a higher level of membership for those who have appropriate work experience.

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/gsb

C04228v1 Master of Nursing

Award(s): Master of Nursing (in name of major) (MN)
CRICOS code: 05562C
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: Kuring-gai campus

Note(s)
This course also has a mid-year intake.

Overview
This course is designed to provide registered nurses with the specialist skills and knowledge required for advanced practice. Students undertake one of four majors and a sub-major chosen from a wide range of specialty areas.

Students can customise their program to meet personal learning needs or workplace requirements. Majors and sub-majors can be combined in a variety of ways to achieve either generalist or highly specialised skills in addition to leadership expertise.

Students choose one of the following majors: Advanced Nursing Practice, Nurse Practitioner, Health Research (domestic students only), Education, Management.

Students complete a sub-major from the following specialty areas: acute care nursing, anaesthesics and recovery room nursing, child and family health nursing, children's nursing, clinical management, clinical teaching, critical care nursing, diabetes education and management, mental health nursing, neonatal nursing, neuroscience nursing, and perioperative nursing.

Elective subjects planned within the course give students the opportunity to explore areas of interest in addition to their selected major.

Course aims
This course aims to:

- develop students' careers as advanced clinicians, managers, educators or nurse practitioners
- extend and enhance existing skills
- build confidence and leadership skills
- provide academic experience and qualification.

Career options
Career options include advanced practice (e.g. clinical nurse specialist or consultant), nursing management, nursing education or nurse practitioner positions in both clinical and community health settings.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

International applicants must be a registered nurse in their own country or place of residence and hold a current Authority to Practise. Local applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience. Students' current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

Applicants to the Master of Nursing in Health Research must have completed four subjects (24 credit points) at the postgraduate level (excluding the core subjects in the Health Research major).

Applicants to the Nurse Practitioner major need to demonstrate the following additional requirements:

- current registration as a nurse in Australia
- length and depth of experience: a minimum of five years, full-time equivalent (FTE) experience as a registered nurse, including three years FTE as a registered nurse in a specialty area and one year FTE at an advanced practice level in the relevant specialty area of practice
- prerequisite education or equivalent in a specialty field as entry to the Nurse Practitioner program: Bachelor of Nursing or equivalent and a postgraduate qualification in a specialty field that has prepared the student for advanced practice (either as a prerequisite or integrated into the master's degree)
- required professional activity: active involvement in professional organisations and contribution to the ongoing development of the profession
- confirmed support for the applicant to complete all professional experience requirements of the course.

For further information on additional requirements, contact the course coordinator.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis.

Course structure
Students must complete a total of 72 credit points (12 subjects) comprising one major, which also includes a choice of one sub-major.

Course completion requirements
Select one of the following: 72cp
STM90595 Domestic students 72cp
STM90596 International students 72cp
Total 72cp

Course program
Examples course programs are shown below. In the Advanced Nursing Practice major and the Nurse Practitioner major, the Critical Care Nursing sub-major has been selected as an example.

Education major and Clinical Teaching sub-major, PT
Year 1
Autumn semester
Select one of the following: 6cp
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
92848 Facilitation of Clinical Learning 6cp
Spring semester
92607 Education for Practice Development 6cp
92869 Specialty Clinical Practice 6cp
Year 2
Autumn semester
92606 Issues in Australian Health Services 6cp
92790 Evidence-based Practice 6cp
Spring semester
Select 12 credit points from the following options: 12cp
CBK90510 Electives 18cp
Year 3
Autumn semester
92713 Health Breakdown 6cp
92918 Fundamentals of Critical Care Nursing 6cp
Spring semester
92919 Complex Critical Care 6cp
92869 Specialty Clinical Practice 6cp
Year 2
Autumn semester
92918 Fundamentals of Critical Care Nursing 6cp
92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp
Spring semester
Select 12 credit points from the following options: 12cp
CBK90510 Electives 18cp
Year 3
Autumn semester
92608 Advanced Assessment and Diagnosis 6cp
98727 Quality Use of Medicines in Advanced Practice 6cp
Spring semester
98728 Leadership, Accountability and Role Development in Advanced Practice 6cp
92611 Complex Case Management 6cp

Education major and Clinical Teaching sub-major, FT
Year 1
Autumn semester
Select one of the following: 6cp
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
92848 Facilitation of Clinical Learning 6cp
92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp
Spring semester
92607 Education for Practice Development 6cp
92612 Research in Health 6cp
92869 Specialty Clinical Practice 6cp
Select 6 credit points from the following options: 6cp
CBK90510 Electives 18cp
Year 2
Autumn semester
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
Select 12 credit points from the following options: 12cp
CBK90510 Electives 18cp

Management major and Clinical Management sub-major, FT
Year 1
Autumn semester
92932 Management for Clinicians 6cp
92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp
Select 6 credit points from the following options: 6cp
CBK90510 Electives 18cp
Spring semester
92023 Health Services Resource Management 6cp
92887 Organisational Management in Health Care 6cp
92612 Research in Health 6cp
Select 6 credit points from the following options: 6cp
CBK90510 Electives 18cp
Year 2
Autumn semester
92847 Planning and Evaluating Health Services 6cp
92917 Using Health Care Data for Decision Making 6cp
Select 12 credit points from the following options: 12cp
CBK90510 Electives 18cp

Advanced Nursing Practice major and Critical Care sub-major, PT
Year 1
Autumn semester
92713 Health Breakdown 6cp
92918 Fundamentals of Critical Care Nursing 6cp
Spring semester
92919 Complex Critical Care 6cp
92869 Specialty Clinical Practice 6cp
Year 2
Autumn semester
92606 Issues in Australian Health Services 6cp
92790 Evidence-based Practice 6cp
Spring semester
92609 Pharmacological Therapies in Advanced Practice 6cp
Select 6 credit points from the following options: 6cp
CBK90510 Electives 18cp
Year 3
Autumn semester
92608 Advanced Assessment and Diagnosis 6cp
98727 Quality Use of Medicines in Advanced Practice 6cp
Spring semester
98728 Leadership, Accountability and Role Development in Advanced Practice 6cp
92611 Complex Case Management 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C04231v2 Master of Arts

Award(s): Master of Arts in Inname of Education major (MA)


CRICOS code: 057879G

Commonwealth-supported place? : Yes

Load credit points: 48

Course EFTSL: 1

Location: City campus

Overview

UTS is a leading provider of language and literacy education and e-learning courses, with academics who are published authors and internationally recognised experts in these fields. This course may be completed as a general Master of Arts degree or as a Master of Arts with a major in e-learning or applied linguistics.

The Master of Arts in e-Learning provides students with the capacity to enhance learning in their diverse workplaces through new technologies, and to discover the possibilities for innovative learning. Students study e-learning models, theories, technologies and design, with electives available in the areas of digital media, graphics, imagery and information.

The Master of Arts in Applied Linguistics is designed to enable language educators and other professionals to gain a firm theoretical grounding in applied linguistics and explore its relevance to their professional practice. The course integrates theory and practice and is an internationally recognised qualification.

The Master of Arts (no specified major) contains a core of two subjects and allows students to choose a further six subjects in an area of their choice. Students may, for example, choose to specialise in the area of training and human resource development. Students wishing to study offshore (e.g. Hong Kong) should apply for the offshore equivalent course, the Master of Arts in Training and Human Resource Development (C04249) (see page 373).

Course aims

The Master of Arts in e-Learning aims to assist students to develop an understanding of the structures, functions and dynamics of a variety of e-learning systems, both locally and internationally, and become familiar, as learners, designers and teachers, with a range of e-learning environments in different disciplines, designed for different educational purposes and with different underlying values.

The Master of Arts in Applied Linguistics aims to provide a rigorous theoretical grounding in applied linguistics relevant to the needs of language educators and other professional groups; develop students' understanding of the linguistic dimensions of cultural diversity, globalisation and social change; and develop skills in the application of linguistic theory to a range of professional practice.

The Master of Arts (no specified major) aims to provide students with opportunities to relate new knowledge and skills to their own practice. The core subjects and electives are designed to promote the notion of the reflective practitioner, i.e. educate participants to critically examine and learn from their own professional experience and that of others.

Career options

Career options are dependent on the major chosen.

Master of Arts in e-Learning: graduates work in e-learning roles in community education, corporate, community and education settings, human resource development, knowledge management, learning and development and primary, secondary or tertiary education.

Master of Arts in Applied Linguistics: graduates work in educational consultancy, management and leadership, research and teaching roles in the fields of TESOL, adult basic education or linguistics.

Master of Arts (no specified major): graduates work in a wide variety of areas, providing leadership in work-based learning in a variety of national and international contexts.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Local students

Local applicants apply through the Universities Admissions Centre.

International students

International students apply through UTS International.

Course duration and attendance

The course can be completed in one year of full-time or two years of part-time study, depending on subject choice. Subjects are offered in weekly, block or distance mode.

Attendance is dependent on students' chosen major and electives. The e-Learning major requires attendance at City campus. The Applied Linguistics major and the general Master of Arts are offered in a choice of distance or face-to-face mode. Not all electives within this course are offered by distance. Students may only complete this course by distance if they select electives which are offered by distance.

This course is available for mid-year entry for full-fee-paying students in the following areas:

- Master of Arts
- Master of Arts in Applied Linguistics
- Master of Arts in Applied Linguistics (distance).

Course structure

Students must complete a total of 48 credit points. Students completing the e-learning or applied linguistics major are required to complete specified core subjects and additional electives. Students not completing a major are required to complete two core subjects and six electives.

Course completion requirements

CBK90545 Major choice 48cp

Total 48cp

Course program

Course programs are given below for each major for both full-time and part-time students. Electives must be chosen from the list presented immediately following the course programs. Not all electives run every year.

Applied Linguistics major, full time

Year 1

Autumn semester

013107 Phonology and Pronunciation 6cp
013087 Discourse Analysis 6cp
013952 Research Perspectives 6cp
013095 Global Englishes 6cp

Spring semester

013096 Grammar and the Construction of Meaning 6cp
Select 18 credit points of electives 18cp
### Applied Linguistics major, part time

#### Year 1

**Autumn semester**
- 013087 Discourse Analysis 6cp
- 013952 Research Perspectives 6cp

**Spring semester**
- 013096 Grammar and the Construction of Meaning 6cp
- Select 6 credit points of electives 6cp

#### Year 2

**Autumn semester**
- 013095 Global Englishes 6cp
- 013107 Phonology and Pronunciation 6cp

**Spring semester**
- Select 12 credit points of electives 12cp

### Electives list, Applied Linguistics major

- 013098 Independent Study Project 1 6cp
- 013104 Language and Power 6cp
- 013117 Theory and Practice of Literacy 6cp
- 013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp

### e-Learning major, full time

#### Year 1

**Autumn semester**
- 013091 e-Learning Experiences 1 6cp
- 013092 e-Learning Experiences 2 6cp
- 013093 e-Learning Design 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 013095 e-Learning Technologies 6cp
- 013091 e-Learning Design 6cp
- 013091 Learning and Change 6cp
- Select 6 credit points of electives 6cp

### e-Learning major, part time

#### Year 1

**Autumn semester**
- 013091 e-Learning Experiences 1 6cp
- 013092 e-Learning Experiences 2 6cp
- 013952 Research Perspectives 6cp

**Spring semester**
- 013091 Learning and Change 6cp
- 013093 e-Learning Technologies 6cp

#### Year 2

**Autumn semester**
- 013092 e-Learning Experiences 2 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 013090 e-Learning Design 6cp
- Select 6 credit points of electives 6cp

### Electives list, e-Learning major

- 013087 Discourse Analysis 6cp
- 013095 Global Englishes 6cp
- 013096 Grammar and the Construction of Meaning 6cp
- 013098 Independent Study Project 1 6cp
- 013104 Language and Power 6cp
- 013105 Language Development 6cp

- 013106 Mentoring in the Workplace 6cp
- 013107 Phonology and Pronunciation 6cp
- 013112 Research Design 6cp
- 013113 Skill Learning and the Development of Expertise 6cp
- 013117 Theory and Practice of Literacy 6cp
- 013120 The Psychology of Adult Development 6cp
- 013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
- 013122 Understanding Adult Education and Training 6cp
- 013123 Work and Learning 6cp
- 013125 Adult Education: History, Policy and Context 6cp
- 013127 Communication Management 6cp
- 013128 Learning and Change in Organisations 6cp
- 013129 Effective Cognitive Learning Strategies 6cp
- 013130 Education for Social Change 1 6cp
- 013131 Education for Social Change 2 6cp
- 013132 Technology Enhanced Language Learning 6cp
- 013133 Individual Instruction for Diverse Learners 6cp
- 013134 Changing Practices Research Seminar 6cp
- 013135 Literary Theory and Education 6cp
- 013136 Developing People and Teams 6cp
- 013137 Educational Leadership 6cp
- 013138 Teaching and Learning in Higher Education 6cp
- 013139 Assessing Learning 6cp
- 013140 Simulation and Games 6cp
- 013141 Language Programming and Assessment 6cp
- 013142 Adult Learning and Program Development 6cp
- 013143 Designs for Learning Research Seminar 6cp
- 013144 Learning and the Family 6cp
- 013145 Culture, Difference and Curriculum 6cp
- 013146 Using Film for Critical Pedagogy 6cp
- 013147 Human Resources and Organisational Development 6cp
- 013159 Independent Study Project 2 6cp
- 013160 Professional Learning and Practice 6cp
- 013161 Popular Education and Social Movements 6cp
- 013162 Organisational Learning 6cp
- 013163 New Media and Social Change 6cp
- 013164 Narrative and Storymaking in Education and Change 6cp
- 013165 Leading Learning in the Workplace 6cp
- 013166 Education in Policy Contexts 6cp
- 013167 Contemporary Work and Learning 6cp
- 013168 Adult Education: Past, Present, Future 6cp
- 57999 Digital and Multiplatform Storytelling 6cp

### No specified major, full time

#### Year 1

**Autumn semester**
- 013952 Research Perspectives 6cp
- Select 18 credit points of electives 18cp

**Spring semester**
- 013091 Learning and Change 6cp
- Select 18 credit points of electives 18cp

#### No specified major, part time

#### Year 1

**Autumn semester**
- 013952 Research Perspectives 6cp
- Select 6 credit points of electives 6cp

**Spring semester**
- 013091 Learning and Change 6cp
- Select 6 credit points of electives 6cp

#### Year 2

**Autumn semester**
- Select 12 credit points of electives 12cp

**Spring semester**
- Select 12 credit points of electives 12cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Electives list, no specified major

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Other information

Further information is available from UTS: Education at:

www.education.uts.edu.au

Local and current students:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

Future international students:

telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)

www.uts.internationalstudent.info/Register.aspx

C04232V3 Master of Education

Award(s): Master of Education in (name of Education major) (MEd)

UAC code: 942200 (No specified CSP) (Autumn semester), 942201 (No specified PDFP) (Autumn semester), 942202 (No specified distance CSP) (Autumn semester), 942203 (No specified distance PDFP) (Autumn semester), 942204 (Adult Education PDFP) (Autumn semester), 942205 (Adult Education PDFP) (Autumn semester), 942210 (Organisational and Workplace Learning CSP) (Autumn semester), 942211 (Organisational and Workplace Learning PDFP) (Autumn semester), 942214 (Popular Education and Social Change CSP) (Spring semester), 942215 (Popular Education and Social Change PDFP) (Spring semester), 945201 (No specified PDFP) (Spring semester), 945203 (No specified distance PDFP) (Spring semester), 945205 (Adult Education PDFP) (Spring semester), 945211 (Organisational and Workplace Learning PDFP) (Spring semester), 945215 (Popular Education and Social Change PDFP) (Spring semester)

CRICOS code: 057876G

Commonwealth-supported place?: Yes

Load credit points: 48

Course EFTSL: 1

Location: City campus

Overview

UTS is a leading university provider of adult, teacher and general education courses in Australia with many academics recognised as leaders in this field. This course is designed to meet the specific educational needs of those wanting to be at the forefront of learning and development in educational, vocational, organisational or community settings.

The Adult Education major introduces students to an in-depth study of adult learning practice and traditions, approaches to program planning, adult development psychology, and education policy contexts.

The Indigenous Studies major is for students wanting to be at the forefront of learning and change in Indigenous education and development.

Students who select the no specified major choose a variety of subjects to form a program of study that suits their professional development needs. Given the faculty's strengths in adult and school education, students are provided with distinct opportunities to study learning and education across many educational sectors.

The Organisational and Workplace Learning major is ideally suited for people working in learning and development units, human resource management, vocational and workplace policy, organisational learning areas and those who are responsible for leading and facilitating formal and informal learning in the workplace.

The Popular Education and Social Change major is designed to meet the specific educational needs of those wanting to be at the forefront of learning in areas of social change and social movements of various kinds. It is ideally suited for people who are working with others in campaigning, organising, advocacy and activism.

Students across all majors, select electives from a wide variety of areas including educational leadership, policy, e-learning, human resource development, curriculum, communication management, assessment, program development, and many others.

Course aims

The course aims to develop a wide range of expertise, depending on the major selected. The expertise, knowledge and skills covered in this degree are:

- expertise in understanding, planning and managing learning
- locating one’s practice in historical and contemporary contexts
- new and more advanced knowledge in designing, implementing and evaluating educational programs
- examining contemporary ideas and practices in social movements, new media and story making and social change, and
- examining contemporary ideas and practices in professional and organisational learning and changes in work.

Career options

Career options vary depending on the major selected, but include a diverse range of educational, policymaking, campaign organising and leadership roles such as community and health education, e-learning, higher education, human resource development, indigenous development, membership-based organisations, non-government, organisational learning and development, religious education, social movement and vocational education and training.
Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Students majoring in Indigenous Studies apply by direct application.

Local students

Local applicants apply through the Universities Admissions Centre.

International students

International students apply through UTS International. International applicants should check the course program to determine which majors are offered in full-time mode.

Course duration and attendance

The course can be completed in one year of full-time or two years of part-time study, depending on subject choices.

The mode of delivery of electives may vary, with subjects offered in weekly, block or distance mode. Students are able to take a combination of modes. Students taking the Indigenous Studies major are able to complete their core subjects by block mode.

Note: not all electives within this course are offered by distance and/or block. Students may only complete this course by distance/block if they select electives which are offered in those modes.

Course structure

Students must complete a total of 48 credit points. Students completing the course with a specified major are required to complete six core subjects and two electives. Students completing the course without a specified major are required to complete two core subjects and six electives.

Course completion requirements

CBK90557 Major choice 48cp

Total 48cp

Course program

Course programs are given below for each major for both full-time and part-time students, for both Autumn and Spring commencement. Not all electives run every year.

Adult Education major, Autumn commencing full time

Year 1

Autumn semester

013122 Understanding Adult Education and Training 6cp
013120 The Psychology of Adult Development 6cp
013952 Research Perspectives 6cp
Select 6 credit points from the following options:
CBK90709 Electives major (AdEd) 12cp

Spring semester

013168 Adult Education: Past, Present, Future 6cp
013142 Adult Learning and Program Development 6cp
013166 Education in Policy Contexts 6cp
Select 6 credit points from the following options:
CBK90709 Electives major (AdEd) 12cp

Year 2

Autumn semester

013952 Research Perspectives 6cp
Select 6 credit points of electives 6cp

Spring semester

013166 Education in Policy Contexts 6cp
Select 6 credit points of electives 6cp

Adult Education major, Spring commencing part time

Year 1

Spring semester

013142 Adult Learning and Program Development 6cp
013166 Education in Policy Contexts 6cp
013168 Adult Education: Past, Present, Future 6cp
Select 6 credit points from the following options:
CBK90709 Electives major (AdEd) 12cp

Year 2

Autumn semester

013122 Understanding Adult Education and Training 6cp
013120 The Psychology of Adult Development 6cp
013952 Research Perspectives 6cp
Select 6 credit points of electives 6cp

Adult Education major, Spring commencing part time

Year 1

Spring semester

013142 Adult Learning and Program Development 6cp
013166 Education in Policy Contexts 6cp

Year 2

Autumn semester

013120 The Psychology of Adult Development 6cp
013122 Understanding Adult Education and Training 6cp

Spring semester

013168 Adult Education: Past, Present, Future 6cp
Select 6 credit points of electives 6cp

Year 3

Autumn semester

013952 Research Perspectives 6cp
Select 6 credit points from the following options: 6cp
CBK90709 Electives major (AdEd) 12cp

Indigenous Studies major, Autumn commencing full time

Year 1

Autumn semester

013952 Research Perspectives 6cp
013130 Education for Social Change 1 6cp
010040 Program Development and Evaluation in Indigenous Education and Development 6cp
Select 6 credit points from the following options: 6cp
CBK90590 Options 12cp

Spring semester

013951 Learning and Change 6cp
013131 Education for Social Change 2 6cp
010041 Research, Ethics and Indigenous Cultural Heritage 6cp
Select 6 credit points from the following options: 6cp
CBK90590 Options 12cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
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<tr>
<th>Major and Commencement Details</th>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 12 credit points from the following options:</td>
<td>12cp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBK90707 Electives major (PopEdSocChange)</td>
<td>12cp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Popular Education and Social Change major, Autumn commencing part time

**Year 1**

**Autumn semester**
- 013122 Understanding Adult Education and Training 6cp
- 013952 Research Perspectives 6cp

**Spring semester**
- 013142 Adult Learning and Program Development 6cp
- 013164 Narrative and Storymaking in Education and Change 6cp

**Year 2**

**Autumn semester**
- 013163 New Media and Social Change 6cp
- 013161 Popular Education and Social Movements 6cp

**Spring semester**
- Select 12 credit points from the following options: 12cp
  - CBK90707 Electives major (PopEdSocChange)

### Popular Education and Social Change major, Spring commencing full time

**Year 1**

**Spring semester**
- 013142 Adult Learning and Program Development 6cp
- 013164 Narrative and Storymaking in Education and Change 6cp

**Select 12 credit points from the following options:** 12cp
- CBK90707 Electives major (PopEdSocChange)

**Year 2**

**Autumn semester**
- 013163 New Media and Social Change 6cp
- 013161 Popular Education and Social Movements 6cp
- 013122 Understanding Adult Education and Training 6cp
- 013952 Research Perspectives 6cp

### Popular Education and Social Change major, Spring commencing part time

**Year 1**

**Spring semester**
- 013142 Adult Learning and Program Development 6cp
- 013164 Narrative and Storymaking in Education and Change 6cp

**Select 12 credit points from the following options:** 12cp
- CBK90707 Electives major (PopEdSocChange)

**Year 3**

**Autumn semester**
- Select 12 credit points from the following options: 12cp
  - CBK90559 Options

### No specified major, Autumn commencing part time

**Year 1**

**Autumn semester**
- 013952 Research Perspectives 6cp
- Select 6 credit points from the following options: 6cp
  - CBK90559 Options

**Spring semester**
- 013951 Learning and Change 6cp
- Select 6 credit points from the following options: 6cp
  - CBK90559 Options

**Year 2**

**Autumn semester**
- Select 12 credit points from the following options: 12cp
  - CBK90559 Options

**Spring semester**
- Select 12 credit points from the following options: 12cp
  - CBK90559 Options

### No specified major, Spring commencing full time

**Year 1**

**Spring semester**
- 013951 Learning and Change 6cp
- Select 18 credit points from the following options: 18cp
  - CBK90559 Options

**Year 2**

**Autumn semester**
- 013952 Research Perspectives 6cp
- Select 18 credit points from the following options: 18cp
  - CBK90559 Options

### No specified major, Spring commencing part time

**Year 1**

**Spring semester**
- 013951 Learning and Change 6cp
- Select 6 credit points from the following options: 6cp
  - CBK90559 Options

**Year 2**

**Autumn semester**
- 013952 Research Perspectives 6cp
- Select 6 credit points from the following options: 6cp
  - CBK90559 Options

**Spring semester**
- Select 12 credit points from the following options: 12cp
  - CBK90559 Options

**Year 3**

**Autumn semester**
- Select 12 credit points from the following options: 12cp
  - CBK90559 Options

### Other information

Further information is available from UTS: Education at: www.education.uts.edu.au

- **Local and current students:**
  - Telephone 1300 ask UTS (1300 275 887)
  - +61 2 9514 1222
  - Ask UTS www.ask.uts.edu.au

- **Future international students:**
  - Telephone 1800 774 816 (freecall within Australia)
  - +61 3 9627 4816 (from outside Australia)
  - www.uts.internationalstudent.info/Register.aspx
C04235v2 Master of Architecture

Overview
The Master of Architecture is a focused, professional degree and is required to become a practising architect. It is the second of two degrees, undertaken after the successful completion of the Bachelor of Design in Architecture (C10004) (see page 125) or equivalent. This course is an innovative and flexible professional degree. Through a non-sequential structure, which allows students to select from a range of core and elective subjects, it gives students choice regarding their professional specialisation that can best serve them in their future careers. Architectural design subjects enhance a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. Research is undertaken as a preliminary to design decision-making, during design and in reflection on design development. Architectural practice subjects prepare students for expanded practice in emerging media and markets, contemporary business practice and global economies and within challenging social, environmental, political and regulatory contexts. Students who complete a Master of Architecture and subsequent practical experience are eligible to become registered architects.

Course aims
The course aims to produce graduates who are able to:
- work collaboratively in local and international architectural practices of differing scale, structure and operation
- be strategic and enterprising practice leaders
- critically analyse, evaluate, question and engage in informed argument
- communicate ideas effectively
- extend knowledge and understanding through research skills and to transfer this creatively through the design process
- put forward accurate and persuasive architectural proposals, and
- apply ethical, environmental, cultural, aesthetic and technological considerations in architectural practice.

Career options
Career options include architect, designer or urban designer.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

From 2016, applicants with a UTS recognised bachelor’s degree must have either: (i) completed it with a WAM of 65 or above, or (ii) completed it with a WAM below 64.99 and have submitted evidence of potential to pursue graduate studies. Applicants relying primarily on a UTS recognised bachelor’s degree with a WAM below 60 will not be eligible for admission to the Master of Architecture.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Students applying from other institutions, or UTS Bachelor of Design in Architecture graduates not proceeding directly to this course, must apply through UAC. Students from other institutions must also submit a portfolio of their architectural projects from previous studies.

Course duration and attendance
The course is offered on a two-year, full-time or part-time equivalent basis.

Course structure
This course comprises 96 credit points, made up of 24 credit points of core architectural practice subjects, 48 credit points of architectural design subjects and 24 credit points of electives.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90795</td>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90794</td>
<td>Core subjects</td>
<td>72cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>96cp</td>
</tr>
</tbody>
</table>

Full time, Autumn commencing

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Architectural Practice: Advocacy</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Studio 1</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>Architectural Practice: Finance and Project Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Studio 2</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>Architectural Practice: The City</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Thesis</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following options:

CBK90795 Electives 24cp

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Architectural Practice: The Profession</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Studio 3</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>Architectural Practice: The City</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Thesis</td>
<td>12cp</td>
</tr>
<tr>
<td></td>
<td>Masters Architectural Design Studio 4</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Select one of the following:

Select 6 credit points from the following options:

CBK90795 Electives 24cp

Professional recognition
The Master of Architecture is a qualification accepted for candidates seeking to take the professional examination of the NSW Architects Registration Board and Royal Australian Institute of Architects (RAIA), as a prerequisite for registration under the provision of the Architects Act administered by the NSW Architects Registration Board, and to professional membership of the institute.

Other information
Further information is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C04236v2 Juris Doctor

Overview

The Juris Doctor (JD) is a graduate law degree that builds on the established reputation of UTS Law to provide high-calibre, graduate-level education in the theory and practice of the law. It is specifically designed for graduates of disciplines other than law. The Juris Doctor qualifies as an Australian Qualifications Framework level 9 master’s degree. The flexible nature of the JD allows students to work while they study and to tailor their workload to suit professional and personal commitments.

The JD offers an alternative pathway to practise as a lawyer for graduates who have successfully completed a first degree. In a globalised environment, the JD is internationally recognised as a graduate-level law qualification. UTS Law integrates flexible learning options, including day and night classes, block intensive classes and online learning.

Career options

Career options include, but are not limited to, lawyer within a private firm, government department or community law centre, regulatory affairs and policy adviser in the public or private sector or legal specialisation related to students’ previous degree or enhanced career options within an existing professional sphere.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

For this course the equivalent qualification required is a bachelor’s degree in a discipline other than law or a law qualification from an overseas jurisdiction. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TOEFL of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Bachelor of Laws or combined Bachelor of Laws (or equivalent) students who transfer to the Juris Doctor can receive credit for no more than half of the subjects within the Juris Doctor based on subjects completed within their undergraduate law studies. This equates to a maximum of 72 credit points.

Course duration and attendance

The standard course can be completed in three years of full-time or five years of part-time study. There are three intakes a year (in Summer, Autumn and Spring).

Students who commence in Summer session complete the introductory core law subject 70120 Legal Method and Research before the start of Autumn semester, thereby accelerating their progression and completing an essential introductory area of law before the commencement of the remaining academic program. Students may continue to accelerate their progression by undertaking up to 12 credit points in each Summer session.

Course structure

The course comprises a total of 144 credit points. The study components for course completion are as follows:

- 102 credit points of compulsory core law subjects (14 subjects), and
- 42 credit points of law options.

Industrial training/professional practice

To practise as a lawyer in NSW, students need to successfully complete an accredited legal qualification and an accredited course of practical legal training (PLT), which UTS offers through its PLT program.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90688</td>
<td>Core subjects</td>
<td>102cp</td>
</tr>
<tr>
<td>CBK90592</td>
<td>Options</td>
<td>18cp</td>
</tr>
<tr>
<td>CBK90858</td>
<td>Options (JD)</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>144cp</td>
</tr>
</tbody>
</table>

Course program

Students in the standard full-time program enrol in between 24 and 26 credit points in Autumn and Spring semesters. The introductory core law subject, 70120 Legal Method and Research, and select core subjects may also be timetabled in Summer session.

Summer session is particularly suitable for students with work or personal commitments. Such students may choose to enrol in one less subject in each of Autumn and Spring semester and make it up by enrolling in up to two subjects (12 credit points) in Summer session.

Optional subjects are regularly timetabled but not all options are offered in any one semester. Optional subjects are timetabled subject to sufficient student interest. http://timetable.uts.edu.au

The standard full-time and part-time programs for students first enrolling in the Juris Doctor at UTS in 2012 are shown below.

Full time

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70115</td>
<td>Perspectives on Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70120</td>
<td>Legal Method and Research</td>
<td>6cp</td>
</tr>
<tr>
<td>70211</td>
<td>Contracts</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70218</td>
<td>Criminal Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70311</td>
<td>Torts</td>
<td>8cp</td>
</tr>
<tr>
<td>70317</td>
<td>Real Property</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70616</td>
<td>Australian Constitutional Law</td>
<td>8cp</td>
</tr>
<tr>
<td>70517</td>
<td>Equity and Trusts</td>
<td>8cp</td>
</tr>
<tr>
<td>70417</td>
<td>Corporate Law</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following options: CBK90592 Options 18cp
Spring semester
70327 Commercial Law 6cp
70617 Administrative Law 8cp
70717 Evidence and Criminal Procedure 6cp
Select 6 credit points from the following options: CBK90592 Options 6cp

Year 3
Autumn semester
75420 Ethics and Professional Conduct 6cp
75421 Civil Litigation 6cp
Select 6 credit points from the following options: CBK90592 Options 6cp

Spring semester
Select 24 credit points from the following options: CBK90858 Options (JD) 24cp

Part time
Year 1
Autumn semester
70115 Perspectives on Law 8cp
70120 Legal Method and Research 6cp

Spring semester
70218 Criminal Law 8cp
70311 Torts 8cp

Year 2
Autumn semester
70211 Contracts 8cp
70616 Australian Constitutional Law 8cp

Spring semester
70317 Real Property 8cp
70327 Commercial Law 6cp

Year 3
Autumn semester
70517 Equity and Trusts 8cp
70417 Corporate Law 8cp

Spring semester
70617 Administrative Law 8cp
70717 Evidence and Criminal Procedure 6cp

Year 4
Autumn semester
Select 12 credit points from the following options: CBK90592 Options 12cp

Spring semester
75420 Ethics and Professional Conduct 6cp
75421 Civil Litigation 6cp
Select 6 credit points from the following options: CBK90592 Options 6cp

Year 5
Autumn semester
Select 8 credit points from the following options: CBK90858 Options (JD) 8cp

Spring semester
Select 16 credit points from the following options: CBK90858 Options (JD) 16cp

Levels of award
The Juris Doctor may be awarded with honours. An additional year of study is not required. To qualify for honours, a student must complete 78102 LLM Project by Research within CBK90858 Options (JD). The rules governing the Juris Doctor with honours (current and pre-2012) can be found in postgraduate course information (see page 99). See coursework research on the UTS: Law website for information on how to apply to enrol.

Articulation with UTS courses
Students who successfully complete the Juris Doctor at UTS and have completed 6 credit point Master of Laws (C04143) (see page 328) equivalent subjects within the Juris Doctor, may apply for these subjects to be credited towards the Master of Laws (C04143) (see page 328) or Doctor of Juridical Science (C02027) (see page 474), up to a maximum of 18 credit points. Such students have this credit applied towards, and must complete, the Options (CBK90419) choice block.

Transfer between UTS courses
Subjects undertaken within the Juris Doctor are recognised within the Master of Legal Studies (C04147) (see page 330) and the Graduate Diploma in Legal Studies (C07074) (see page 412). Students enrolled in the Juris Doctor may apply to internally transfer to the master's or graduate diploma. Candidates are not awarded the Juris Doctor but subjects undertaken are applied towards the master's or graduate diploma.

Professional recognition
This course satisfies the requirements for admission as a lawyer to the Supreme Court of NSW, provided students undertake a PLT program, such as the Graduate Certificate in Professional Legal Practice (C11232) (see page 467).

Other information
Further information for future students is available from: telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from: telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04237v2 Master of Professional Accounting Extended
Award(s): Master of Professional Accounting (MProfAcc)
CRICOS code: 01286J
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
The Master of Professional Accounting Extended is designed to provide non-accounting graduates with the necessary skills and knowledge required for a career in professional accounting. The completion of the course satisfies the academic requirements for entry to the professional programs of CPA Australia and the Institute of Chartered Accountants in Australia (ICAA).

The Master of Professional Accounting Extended provides the ideal academic foundation to pursue a career in accounting. The course provides the necessary knowledge, understanding and expertise necessary for employment in the accounting profession. Further, the professional recognition of the course by CPA Australia and ICAA provides students with internationally recognised qualifications that enhance both their employment and promotion opportunities.

Course aims
The course aims to provide local and international graduates with the requisite knowledge in accounting and the role accounting plays in providing information products supporting all areas of business activity. In addition to providing a professionally recognised qualification, the course comprises a mix of accounting, finance, legal, communication and economics subjects that collectively provide a range of essential business skills and knowledge that are necessary for employment in today’s dynamic business environment.

Career options
Career options include management-level positions in industry or government, as well as not-for-profit organisations. With the CPA and ICAA qualification being recognised internationally, the prospect for overseas employment is also enhanced.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions based on credit recognition, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in two years of full-time or four years of part-time study.

Classes are offered over three teaching periods each year (namely Autumn and Spring semesters, and Summer session). Not all subjects are available in Summer session.

In most cases, subjects are offered on the basis of one three-hour lecture per week, over a 13-week period, however, certain subjects may be delivered in intensive mode and be completed over a shorter time period.

Course structure
The Master of Professional Accounting Extended comprises 96 credit points, made up of 13 core subjects (totalling 78 credit points), plus three elective subjects (totalling 18 credit points).

Course completion requirements

<table>
<thead>
<tr>
<th>Course code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90696</td>
<td>Core subjects</td>
<td>78cp</td>
</tr>
<tr>
<td>CBK90807</td>
<td>Electives</td>
<td>18cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>96cp</td>
</tr>
</tbody>
</table>

Course program
The course program is shown below.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>22747</td>
<td>Accounting for Managerial Decisions</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>25742</td>
<td>Financial Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>79708</td>
<td>Contemporary Business Law</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>21878</td>
<td>Organisational Dialogue: Theory and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>23706</td>
<td>Economics for Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>22748</td>
<td>Financial Reporting and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>22753</td>
<td>Cost Management and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>72cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>22705</td>
<td>Management Planning and Control</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>22754</td>
<td>Corporate Accounting</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>77947</td>
<td>Companies and Securities Law</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>22730</td>
<td>Auditing and Assurance Services</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>22743</td>
<td>Business Valuation and Financial Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>77938</td>
<td>Introduction to Taxation Law</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>6cp</td>
<td></td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Professional Accounting (C11206) (see page 456), the Master of Professional Accounting (C04238) (see page 356) and the Master of Professional Accounting Extended.

Professional recognition
CPA Australia; Institute of Chartered Accountants Australia; Institute of Public Accountants (IPA)

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg

C04238v3 Master of Professional Accounting

Award(s): Master of Professional Accounting (MProfAcc)
CRICOS code: 061285K
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Professional Accounting is designed to provide graduates with little or no accounting exposure with the necessary skills and knowledge required for a career in professional accounting. The course satisfies the academic requirements for entry to the professional programs of CPA Australia and the Institute of Chartered Accountants in Australia (ICAA).

This course provides the ideal academic foundation to pursue a career in accounting, with the subjects providing the necessary knowledge, understanding and expertise necessary for employment in the accounting profession. Further, the professional recognition of the course by CPA Australia and ICAA provides students with internationally recognised qualifications that enhance both their employment and promotion opportunities.

Course aims
The course aims to provide local and international graduates with the requisite knowledge in accounting and the role accounting plays in providing information to support business activities. In addition to providing a professionally recognised qualification, the course comprises a mix of accounting, finance, legal and economics subjects which collectively provide a range of essential business skills and knowledge that are necessary for employment in today’s dynamic business environment.

Career options
Career options include management-level positions in industry or government, as well as not-for-profit organisations. With the CPA Australia and ICAA qualification being recognised internationally, the prospect for overseas employment is also enhanced.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying...
on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions based on credit recognition, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one-and-a-half years of full-time or three years of part-time study. Classes are offered over three teaching periods each year (namely Autumn and Spring semesters, and Summer session). Not all subjects are available in Summer session.

In most cases, subjects are offered on the basis of one three-hour lecture per week, over a 13-week period, however, certain subjects may be delivered in intensive mode and be completed over a shorter time period.

Course structure
The course totals 72 credit points, made up of 12 core subjects.

Course completion requirements
22747 Accounting for Managerial Decisions 6cp
22742 Financial Management 6cp
79708 Contemporary Business Law 6cp
23706 Economics for Management 6cp
22748 Financial Reporting and Analysis 6cp
22705 Management Planning and Control 6cp
22733 Cost Management and Analysis 6cp
22754 Corporate Accounting 6cp
77947 Companies and Securities Law 6cp
22730 Auditing and Assurance Services 6cp
22743 Business Valuation and Financial Analysis 6cp
77938 Introduction to Taxation Law 6cp
Total 72cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Professional Accounting (C11206) (see page 456), the Master of Professional Accounting, and the Master of Professional Accounting Extended (C04237) (see page 355).

Professional recognition
CPA Australia; Institute of Chartered Accountants Australia; Institute of Public Accountants (IPA)

Other information
Further information is available from UTS: Business on:
phone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg

C04239v2 Master of Management
Award(s): Master of Management in (name of Management major)
CRICOS code: B8463M (three semesters)
Commonwealth-supported place?: Yes
Load credit points: 72
Course EFTSL: 1.5
Location: City and Kuring-gai campuses

Note(s)
The Community and Not-for-Profit Management stream is only available to students as a commonwealth-supported place.

Overview
This course provides students with an opportunity to develop skills and knowledge leading to a career in the ever-expanding experience economy and its key sectors. The core of the Master of Management has been designed to provide a business underpinning to a series of industry sector-focused majors in arts, events, sport and tourism. In practical terms the course recognises and embraces the general notion that professionals in this new economy need to understand and plan for the experience rendered to their clients. The majors allow students to specialise and to develop a depth of understanding of management issues, challenges and approaches within a particular sector of the experience economy. The Community and Not-for-Profit Management stream develops critical and analytical skills for people working in non-profit and community organisations. Students have the opportunity to apply research skills to a project focusing on a specific aspect of community and not-for-profit management.

The Master of Management and its four industry-focused majors provide a unique suite of offerings at the postgraduate level. Sydney is the largest tourist gateway in Australia (accounting for more than two-thirds of international tourists), a major sporting hub, the home of Australia’s hallmark arts companies and an international events destination. UTS is consequently in a unique position to capitalise and position itself within the growing experience economy with this course and its associated majors.

The course provides a combination of intellectual rigour with the development of a range of significant general management skills. Coupled with these is a strong practical orientation to the specialist industry sectors associated with the course’s majors which provides students with opportunities to gain exposure to and experience within their specialist industry sector.

The graduate student body in the school is culturally diverse. Both domestic and international students come from a range of cultural and ethnic backgrounds. Class engagement and participation recognises and embraces this diversity. A number of the school’s staff have experience in international teaching in China, Malaysia, Cambodia, Thailand, Singapore, the United Kingdom and Europe, and are thus able to bring a global perspective to the international environment in which they engage.

The well-developed industry focus of the course, the strong connections to the Sydney market, the opportunities for professional engagement and a global outlook in classroom interactions are all significant markers of this program. The Community and Not-for-Profit Management stream provides an opportunity to study at a professional level those factors contributing to the effective management of non-profit organisations. Students develop an understanding of this ‘third sector’ and its social and economic context, and are introduced to ways of thinking systematically about non-profit organisations and their management. Students also gain knowledge of the range of non-profit organisations, their structure and distinguishing features.

Course aims
The aim of the course is to prepare forward-thinking, work-ready graduates with the business, management and interpersonal skills to function effectively as professionals within their selected industry sector of the arts, events, tourism, sport or community and not-for-profit organisations.

Career options
The course provides for a wide range of career opportunities within each of the four industry sectors linked to its specialist majors. In Arts Management, graduates may pursue careers in such fields as:
- cultural policy
- marketing performing arts
- cultural venue management
- arts and cultural development management
- gallery and museum management
- dance, theatre and popular music.

In Event Management, graduates may pursue careers in such fields as:
- event planning and development
- conference management
- event marketing
- exhibition management
- corporate event management
- festival and special event management
- place management.

In Sport Management, graduates may pursue careers in such fields as:
- sport marketing
- sport event management
- venue and facility management
- sports development
- sports administration
- operations management.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
In Tourism Management, graduates may pursue careers in such fields as:
- tourist attraction management
- tour wholesaling and operations
- tourism marketing
- tourism research
- tourism planning and development
- hotel development, marketing and management
- airline and transportation management
- ecotourism operations and management.

In Community and Not-for-Profit Management, career options include managing non-government or non-profit organisations, working in the field of corporate social responsibility, or in government particularly in roles that work with community or not-for-profit organisations such as:
- social and community welfare
- environment advocacy
- arts and culture
- fundraising
- education
- international aid and development
- professional associations and unions.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**

Students may be granted a maximum of eight subject exemptions, of which four compulsory subjects may be approved from prior undergraduate study. Compulsory subjects, in this context, include core subjects plus the required subjects to complete a specific major.

**Course duration and attendance**

The course duration is one-and-a-half years, full time (Autumn semester); two years, full time (Spring semester); or three years, part time.

The Community and Not-for-Profit Management stream is taught in flexible mode, including three intensive workshops of five days each, self-managed learning packages and learning partnerships to develop peer-supported networks.

**Course structure**

The course comprises 72 credit points, made up of five core subjects (30 credit points) and seven elective subjects (42 credit points) comprising a major in either tourism, arts, sports or event management. Within each major there are five compulsory subjects that must be completed for a student to be credited with that major. The remaining two elective subjects may be selected from subjects offered in other majors, or students may elect to do an industry-based research project or professional internship placement.

The Community and Not-for-Profit Management stream comprises 72 credit points of study, made up of eight core subjects (48 credit points) and four elective subjects (24 credit points).

**Course completion requirements**

Select 72 credit points from the following options: 72cp
STM90774 Standard options (Management) 72cp
STM90776 Community and Not-for-Profit Management 72cp

**Total 72cp**

**Course program**

Example course programs for each major are provided below.

**Arts Management**

**Year 1**

**Autumn semester**
27753 Arts and Cultural Industries 6cp
27755 Arts Organisations and Management 6cp
21751 Management Research Methods 6cp
22747 Accounting for Managerial Decisions 6cp

**Spring semester**
27763 Arts and Cultural Policy 6cp
27734 Marketing for the Experience Industries 6cp
27778 Innovative Services Management 6cp
27717 Venue and Facility Management 6cp

**Year 2**

**Autumn semester**
27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
27733 The Experience Economy 6cp

Select 12 credit points of electives 12cp

**Event Management**

**Year 1**

**Autumn semester**
27727 Event Creation Workshop 6cp
27765 Event Management 6cp
27707 Applied Research Methods 6cp
22747 Accounting for Managerial Decisions 6cp

**Spring semester**
27726 Event Concepts and Contexts 6cp
27737 Event Risk Management 6cp
27717 Venue and Facility Management 6cp
27734 Marketing for the Experience Industries 6cp

**Year 2**

**Autumn semester**
27733 The Experience Economy 6cp
27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp

Select 12 credit points of electives 12cp

**Sports Management**

**Year 1**

**Autumn semester**
27732 Sport Organisations 6cp
27715 Sport Business 6cp
27707 Applied Research Methods 6cp
22747 Accounting for Managerial Decisions 6cp

**Spring semester**
27717 Venue and Facility Management 6cp
27734 Marketing for the Experience Industries 6cp
27721 Sport Globalisation 6cp
27778 Innovative Services Management 6cp

**Year 2**

**Autumn semester**
27733 The Experience Economy 6cp
27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp

Select 12 credit points of electives 12cp
C04240V1 Master of Advanced Architecture

Award(s): Master of Advanced Architecture in [name of specialisation] (MAdvArch)
UAC code: 942114 (Autumn semester)
CRICOS code: 06986A
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Advanced Architecture is a post-professional coursework degree leading to either one of two qualifications: the Master of Advanced Architecture in Urban Design or the Master of Advanced Architecture in Design Technologies.

The Design Technologies specialisation focuses on computationally driven architectural design and its expansion into digital manufacturing, prototyping, and materials technologies, as well as the realisation of responsive environments. This degree is an evolution of UTS’s Master of Digital Architecture.

The Urban Design specialisation addresses the intersecting challenges of social and political change, environmental degradation and globalisation through the design of the urban fabric, including infrastructure, buildings and open spaces.

Project-based learning is a core focus of the course with projects adapted from practice situations as vehicles for advancing the professional practice of architecture and urban design. Relevant and challenging projects faced by industry are tested as vehicles in an academic setting.

The course has a strong element of internationalisation through the inclusion of intensive master classes and a global field studio that sees key international urban designers, architects and theorists teach into the course each year.

The Master of Advanced Architecture combines subjects in research and theory, with the development of advanced design and technical skills. The two qualifications share an emphasis on project-based coursework through which students learn to apply digital techniques to spatial research and design at the scale of the city or the architectural project.

Subjects include spatial research, demonstration projects oriented to spatial research and design at the scale of the city or the architectural project.

Articulation with UTSG courses
This course is part of an articulated program comprising the Graduate Certificate in Event Management (C11038) (see page 427), the Graduate Diploma in Event Management (C11035) (see page 426), the Graduate Diploma in Tourism Management (C11035) (see page 426), the Graduate Diploma in Tourism Management (C11035) (see page 426), the Graduate Diploma in Tourism Management (C11035) (see page 426), the Graduate Diploma in Tourism Management (C11035) (see page 426), the Graduate Diploma in Tourism Management (C11035) (see page 426), and the Master of Management.

Professional recognition
The Community and Not-for-Profit Management stream is accredited by the Nonprofit Academic Centers Council (NACC).

Other information
Further information is available from UTS: Business on:
telephone: +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au / gsb
Graduates in the Design Technologies specialisation can also take roles in manufacturing and RP modelling, systems and strategic design and analysis, architectural animation and visualisation.

Career options for graduates with the Urban Design specialisation include positions in urban design, urban strategy and policy and architectural design.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants require a five-year full-time or equivalent professional entry degree from an accredited program in architecture or a four-year full-time or equivalent degree from an accredited program in landscape architecture.

Alternatively applications can demonstrate an equivalency through a portfolio and relevant experience in an allied design profession.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
All applicants must submit a portfolio of work demonstrating their design skills for examination in addition to a statement of interest in the course.

Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

There is also the possibility of international field trips.

Course structure
The course comprises 24 credit points of classes in Autumn semester (over 14 weeks), a 12-credit-point studio in July session (over four weeks), 24 credit points of classes in Spring semester (over 14 weeks), and a 12-credit-point demonstration project in Summer session (over eight weeks).

Course completion requirements
11520 Spatial Research 6cp
11525 Demonstration Project 12cp
CBK090623 Advanced Architecture 12cp
CBK090624 Advanced Architecture Studio 42cp
Total 72cp

Transfer between UTS courses
Entry into this course can occur via one of the following UTS pathway courses: the Master of Architecture (C04235) (see page 353), the Graduate Diploma in Architecture (CU11715) (see page 417) or the Graduate Certificate in Architecture (C11212) (see page 459).

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

CO4241v1 Master of Science
Award/s: Master of Science in (name of Science major) [MSc]
UAC code: 942747 (No specified major) [Autumn semester], 942750 (Forensic Science) [Autumn semester], 942753 (Physics and Advanced Materials) [Autumn semester], 942756 [Environmental Change Management] [Autumn semester], 942759 (Medical Biotechnology) [Autumn semester], 942762 [Science Management] [Autumn semester], 942765 [Mathematical and Statistical Modelling] [Autumn semester], 942770 [Marine Science and Management] [Autumn semester], 942773 [Biomedical Engineering] [Autumn semester], 945747 [No specified major] [Spring semester], 945750 (Forensic Science) [Spring semester], 945753 [Physics and Advanced Materials] [Spring semester], 945756 [Environmental Change Management] [Spring semester], 945759 (Medical Biotechnology) [Spring semester], 945762 [Science Management] [Spring semester], 945765 [Mathematical and Statistical Modelling] [Spring semester], 945770 [Marine Science and Management] [Spring semester], 945773 [Biomedical Engineering] [Spring semester]
CRICOS code: 071909M; 072904G (Accelerated)
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5

Note(s)
The Physics and Advanced Materials major is currently not available to international students.

This course has two CRICOS codes: 071909M (3 semesters); 072904G (accelerated 14 months).

Overview
This course is designed to cater for two distinct groups of students: professional scientists wishing to update their industry-related skills for career advancement and students considering a research degree.

The course contains a compulsory core of professional subjects relevant to all science disciplines. The subjects in the core provide a backbone of skills important to a professional scientist; be they engaged in research, science businesses, industries or government organisations. These are the skills of communication, critical analysis, project management and innovation and commercialisation. The professional strand is complemented by a choice of major study in a specific science or mathematics discipline, or in science management. Students also have the option of undertaking a research project, subject to approval by the faculty. For students with suitable achievement levels considering a research degree, this course provides a pathway to a PhD.

Students in the Marine Science and Management major are exposed to multi-disciplinary and cross-institutional coursework, with a capstone project taught at the Sydney Institute of Marine Science (SIMS) and multiple lecture series and practical components using real-life data from the Australian Integrated Marine Observatory System.

Course aims
The course provides graduates with analytic tools and disciplinary knowledge, combined with creative, logical approaches to problem-solving and professional skills that facilitate real world application of the science such as project management, IP management and commercialisation.

Career options
Career options vary according to the major chosen, but all graduates have training in the professional attributes that employers seek. The skills learnt expand career horizons and enhance prospects for promotion in the rapidly evolving science professions. Graduates in all majors may also proceed to a career in research through entry to a PhD.

- Graduates of the Biomedical Engineering major will be well prepared for careers in medical device and biotechnology companies, government policy and regulation, hospitals, and research organisations where the ability to combine biology and engineering knowledge and skills is required.

- Graduates of the Marine Science and Management major can pursue careers worldwide in private and public agencies, or as private consultants in fields such as policy and conservation, fisheries, environmental sustainability and management, impact assessment, tourism, and education.
• Graduates of the Physics and Advanced Materials major could expect to find careers in industries developing next generation materials for sustainable use and generation of energy. Examples might include developing alternatives to traditional incandescent or fluorescent lights, or new battery technologies for energy storage.

• Graduates of the Environmental Change Management major may find management and leadership positions in government agencies, the private sector and community organisations concerned with biodiversity, coastal zone management, climate change adaptation, environmental policy, environmental remediation, environmental sustainability, fisheries, infrastructure, land and water resources, national parks and wildlife, planning, and natural resource management.

• Forensic Science major graduates may take up positions in police forensic laboratories, state and federal law enforcement agencies, government and private forensic or drug detection laboratories, customs and border protection agencies, and environmental protection agencies.

• Graduates of the Mathematical and Statistical Modelling major may expect to apply their logistic, statistical and modelling skills in careers in a wide range of diverse organisations and industries, including banking and finance, health, information technology, and market research.

• Career options for Medical Biotechnology major graduates include senior positions in public health units, hospitals or government departments, or as policy analysts or consultants, providing links with bodies such as state health departments. Graduates may also pursue management positions in diagnostic medical laboratories, or in pharmaceutical or biotechnology companies.

• Graduates of the Science Management major are focused towards careers in management of science industries and organisations. This major is specifically designed for science graduates who are making, or expect to make, the transition to management roles in their place of employment.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-90 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students enrolled in this course may be eligible for credit recognition of up to 24 credit points if the subjects previously studied are deemed by UTS: Science to be equivalent to those specified for their course.

To be considered for credit recognition, subjects must normally have been completed no more than five years prior to the commencement of this course.

Course duration and attendance
The standard course duration is 18 months full time, however most majors in the course may be completed in an accelerated full-time mode in 14 months.

Some subjects are offered in Summer session and in other short teaching sessions so students may fast-track their studies.

The course may also be completed in part-time mode, typically over 36 months. Part-time students must be prepared to attend some afternoon or morning classes during each teaching week.

Course structure
The course requires 72 credit points of study, comprising 24 credit points of professional stream subjects and a 48-credit-point major.

A non-specified major in which cross-disciplinary subject selection is possible is also offered.

The Physics and Advanced Materials major is not currently offered to international students.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90522</td>
<td>Professional stream</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90644</td>
<td>Major choice</td>
<td>48cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>72cp</td>
</tr>
</tbody>
</table>

Course program
Example programs for the accelerated mode commencing in either Autumn or Spring semesters for all majors except Forensic Science and Biomedical Engineering are shown below.

The Forensic Science major (MAJ01123) contains a mix of subjects from different forensic disciplines and example programs are more difficult to predict because subject choices are influenced by prior study. A typical 18-month program focusing on the forensic chemistry discipline with admission in Autumn semester is shown below, as well as a typical 18-month program focusing on the forensic biology discipline with admission in Spring semester. Students with appropriate backgrounds wishing to choose a mixture of forensic chemistry and forensic biology subjects should seek advice from their program advisers.

The Biomedical Engineering major (MAJ03470) contains a mix of subjects from different science and engineering disciplines and example programs are more difficult to predict because subject choices are influenced by prior study. Typical 18-month programs for students admitted in either Autumn or Spring semester, with prior backgrounds in either biomedical or physical science are shown below. Depending on selection of electives, the number of elective credit points in a given semester may differ from that listed below.

The Marine Science and Management major (MAJ01130) requires two subjects to be chosen from external partner universities and the subject chosen may affect the course duration, depending on semester of offer of the selected subject. Example programs for the accelerated mode commencing in either Autumn or Spring semesters are shown below, however it should be noted that these are possible only if the specific optional subjects illustrated are chosen.

Environmental Change Management major, Autumn Accelerated Full time

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>60901</td>
<td>Advanced Communication Skills in Science</td>
<td>6cp</td>
</tr>
<tr>
<td>60902</td>
<td>The Scientific Method</td>
<td>6cp</td>
</tr>
<tr>
<td>91120</td>
<td>GIS and Remote Sensing</td>
<td>6cp</td>
</tr>
<tr>
<td>91116</td>
<td>Wildlife Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>91118</td>
<td>Fisheries Resources</td>
<td>6cp</td>
</tr>
<tr>
<td>66513</td>
<td>Marine Geosciences</td>
<td>6cp</td>
</tr>
<tr>
<td>91309</td>
<td>Biodiversity Conservation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Select 6 credit points from the following options:**

91116 Wildlife Ecology
91118 Fisheries Resources
66513 Marine Geosciences
91309 Biodiversity Conservation

**July session**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>60904</td>
<td>Innovation, Entrepreneurship and Commercialisation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91145</td>
<td>Environmental Protection and Management</td>
<td>6cp</td>
</tr>
<tr>
<td>91155</td>
<td>Stream and Lake Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>91554</td>
<td>Ecohydrology and Climate Change</td>
<td>6cp</td>
</tr>
<tr>
<td>91157</td>
<td>Marine Communities</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90640</td>
<td>Elective</td>
<td>6cp</td>
</tr>
<tr>
<td>91545</td>
<td>Environment Research Project A</td>
<td>12cp</td>
</tr>
</tbody>
</table>

**Year 2**

**Summer session**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>60903</td>
<td>Project Management in Science</td>
<td>6cp</td>
</tr>
<tr>
<td>91541</td>
<td>Monitoring Ecological Variability</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**March session**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91540</td>
<td>Climate Change and Ecological Modelling</td>
<td>6cp</td>
</tr>
</tbody>
</table>
### Environmental Change Management major, Spring Accelerated Full time

#### Year 1

**Spring semester**
- 60901 Advanced Communication Skills in Science 6cp
- 60902 The Scientific Method 6cp
- 91145 Environmental Protection and Management 6cp
- Select 6 credit points from the following options: 6cp
  - 91155 Stream and Lake Assessment 6cp
  - 91551 Ecohydrology and Climate Change 6cp
  - 91157 Marine Communities 6cp

**Autumn semester**
- 60903 Project Management in Science 6cp
- 91541 Monitoring Ecological Variability 6cp
- Select 18 credit points from the following options: 18cp
  - 91116 Wildlife Ecology 6cp
  - 91118 Fisheries Resources 6cp
  - 66513 Marine Geosciences 6cp
  - 91309 Biodiversity Conservation 6cp
  - CBK900640 Elective 6cp
- 91545 Environment Research Project A 12cp

**July session**
- 60904 Innovation, Entrepreneurship and Commercialisation 6cp

**August session**
- 91540 Climate Change and Ecological Modelling 6cp

### Medical Biotechnology major, Autumn Accelerated Full time

#### Year 1

**Autumn semester**
- 60901 Advanced Communication Skills in Science 6cp
- 60902 The Scientific Method 6cp
- Select 12 credit points from the following options: 12cp
  - 9135 Molecular Biology 2 6cp
  - 91359 Advanced Immunology 6cp
  - 91707 Pharmacology 1 6cp
  - 91344 Medical and Diagnostic Biochemistry 6cp
  - 91369 Biobusiness and Environmental Biotechnology 6cp
  - 91369 Biotechnology Research Project A 12cp
- 91369 Biobusiness and Environmental Biotechnology 6cp

**July session**
- 60904 Innovation, Entrepreneurship and Commercialisation 6cp

**Spring semester**
- Select 24 credit points from the following options: 24cp
  - 91335 Molecular Biology 2 6cp
  - 91359 Advanced Immunology 6cp
  - 91707 Pharmacology 1 6cp
  - 91344 Medical and Diagnostic Biochemistry 6cp
  - 91369 Biobusiness and Environmental Biotechnology 6cp
  - 91369 Biotechnology Research Project B 12cp
- 91539 Biotechnology Research Project 24cp
- CBK900640 Elective 6cp
- 91538 Biotechnology Research Project B 12cp

**July session**
- 60904 Innovation, Entrepreneurship and Commercialisation 6cp

**August session**
- 91536 Proteomics 6cp

### Energy Efficient Materials major, Autumn Accelerated Full time

#### Year 1

**Autumn semester**
- 60901 Advanced Communication Skills in Science 6cp
- 60902 The Scientific Method 6cp
- Select 6 credit points from the following options: 6cp
  - 68415 Measurement and Analysis of Physical Processes 6cp
  - 68315 Imaging Science 6cp
  - 68413 Quantum Physics 6cp
  - 68513 Optics and Nanophotonics 6cp
  - 68320 Scanning Probe and Electron Microscopy 6cp
  - 68046 Physics Research Project A 12cp

**Spring semester**
- 68002 Advanced Nanomaterials 6cp
- Select 18 credit points from the following options: 18cp
  - 68415 Measurement and Analysis of Physical Processes 6cp
  - 68315 Imaging Science 6cp
  - 68413 Quantum Physics 6cp
  - 68513 Optics and Nanophotonics 6cp
  - 68320 Scanning Probe and Electron Microscopy 6cp
  - 68046 Physics Research Project A 12cp

**Year 2

**Summer session**
- 60903 Project Management in Science 6cp
- 68045 Computation Techniques in the Materials Sciences 6cp

**March session**
- 68044 Characterisation of Energy Efficient Materials 6cp
## Energy Efficient Materials major, Spring Accelerated Full time

### Year 1

#### Spring semester

- [60901](#) Advanced Communication Skills in Science 6cp
- [60902](#) The Scientific Method 6cp
- [60902](#) Advanced Nanomaterials 6cp

Select 6 credit points from the following options: 6cp

- [68315](#) Imaging Science 6cp
- [68415](#) Measurement and Analysis of Physical Processes 6cp
- [68513](#) Optics and Nanophotonics 6cp
- [68413](#) Quantum Physics 6cp
- [68320](#) Scanning Probe and Electron Microscopy 6cp

#### Autumn semester

- [68001](#) Advanced Physics 6cp

Select 18 credit points from the following options: 18cp

- [68046](#) Physics Research Project A 12cp
- [68006](#) Solid-state Science and Nanodevices 6cp
- [68416](#) Computational Physics 6cp
- [67509](#) Molecular Nanotechnology 6cp
- CBK90640 Elective 6cp
- [68316](#) Applied Electronics and Interfacing 6cp

#### Summer session

- [60903](#) Project Management in Science 6cp
- [68045](#) Computation Techniques in the Materials Sciences 6cp

#### August session

- [68044](#) Characterisation of Energy Efficient Materials 6cp

## Mathematical and Statistical Modelling major, Autumn Accelerated Full time

### Year 1

#### Autumn semester

- [60901](#) Advanced Communication Skills in Science 6cp
- [35212](#) Computational Linear Algebra 6cp

Select 24 credit points from the following options: 24cp

- [35366](#) Numerical Methods of Finance 6cp
- [35365](#) Stochastic Calculus in Finance 6cp
- [35457](#) Multivariate Statistics 6cp
- [35353](#) Regression Analysis 6cp
- [35361](#) Stochastic Processes 6cp

Select one of the following: 6cp

- [35355](#) Quality Control 6cp
- [35393](#) Seminar (Statistics) 6cp
- [35355](#) Mathematical Statistics 6cp
- [35364](#) Statistics for Quantitative Finance 6cp
- [35365](#) Stochastic Calculus in Finance 6cp
- [35366](#) Numerical Methods of Finance 6cp
- [35357](#) Multivariate Statistics 6cp
- [35356](#) Design and Analysis of Experiments 6cp
- [35502](#) Seminar A 6cp
- [35503](#) Seminar B 6cp
- [35504](#) Seminar C 6cp
- [35505](#) Seminar D 6cp
- [35322](#) Advanced Analysis 6cp
- [35505](#) Seminar D 6cp
- [35504](#) Seminar B 6cp
- [35502](#) Seminar A 6cp
- [35344](#) Network and Combinatorial Optimisation 6cp
- [35342](#) Nonlinear Methods in Quantitative Management 6cp
- [35113](#) Mathematical Research Project B 12cp
- [35114](#) Mathematical Research Project C 6cp
- [35340](#) Quantitative Management Practice 6cp

#### July session

- [60904](#) Innovation, Entrepreneurship and Commercialisation 6cp

## Science Management major, Autumn Accelerated Full time

### Year 1

#### Autumn semester

- [60901](#) Advanced Communication Skills in Science 6cp
- [60905](#) Leadership and Teamwork in Science 6cp
- [60907](#) Managing Science-based Enterprises 6cp

Select 6 credit points from the following options: 6cp

- [CBK90642](#) Elective 12cp
- [CBK90643](#) Elective 12cp
- [CBK90388](#) Electives 12cp

#### July session

- [60904](#) Innovation, Entrepreneurship and Commercialisation 6cp

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*Students are advised to read the General information and Course area information sections in conjunction with specific course entries.*
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### Autumn semester
- 91146 Topics in Australian Marine Science 6cp
- 91166 External Marine Study 2 6cp
- Select 12 credit points from the following options: 12cp
- 91118 Fisheries Resources 6cp
- 66513 Marine Geosciences 6cp
- 91545 Environment Research Project A 12cp

#### July session
- 6904 Innovation, Entrepreneurship and Commercialisation 6cp

#### August session
- 91540 Climate Change and Ecological Modelling 6cp

### Biomedical Engineering major, Physical Science stream, Autumn

#### Year 1
- **Autumn semester**
  - 91429 Physiological Bases of Human Movement 6cp
  - 60901 Advanced Communication Skills in Science 6cp
  - 48023 Programming Fundamentals 6cp
  - Select 6 credit points of electives 6cp

#### July session
- 6904 Innovation, Entrepreneurship and Commercialisation 6cp

#### Spring semester
- 49261 Biomedical Instrumentation 6cp
- 91239 Human Pathophysiology 6cp
- Select 12 credit points of electives 12cp

#### Year 2
- **Summer session**
  - 6903 Project Management in Science 6cp

- **Autumn semester**
  - 68316 Applied Electronics and Interfacing 6cp
  - Select 12 credit points of electives 12cp

#### July session
- 6904 Innovation, Entrepreneurship and Commercialisation 6cp

#### Spring semester
- 49261 Biomedical Instrumentation 6cp
- 91239 Human Pathophysiology 6cp
- Select 6 credit points of electives 6cp

### Biomedical Engineering major, Biomedical Sciences stream, Spring

#### Year 1
- **Spring semester**
  - 60901 Advanced Communication Skills in Science 6cp
  - 60902 The Scientific Method 6cp
  - 91239 Human Pathophysiology 6cp
  - Select 6 credit points of electives 6cp

#### July session
- 6904 Innovation, Entrepreneurship and Commercialisation 6cp

#### Spring semester
- 49261 Biomedical Instrumentation 6cp
- 91239 Human Pathophysiology 6cp
- Select 12 credit points of electives 12cp

### Other information

Further information is available from:
- Science Academic Administration Office
  - telephone +61 2 9514 9985
  - email Science.admin@uts.edu.au
- Building 6 Student Centre
  - telephone 1300 ask UTS (1300 275 887)
  - Ask UTS www.ask.uts.edu.au

### C04242v1 Master of Communications Law

#### Award(s)
- Master of Communications Law (MCommLaw)

#### UAC code:
- 942430 (Autumn semester), 945430 (Spring semester)

#### CRICOS code:
- 071753D

#### Commonwealth-supported place?:
- No

#### Load credit points: 48

#### Course EFTSL: 1

#### Location: City campus

### Overview

Emerging as a critical media and legal specialisation, communications law at UTS offers an opportunity for non-law as well as law graduates to develop an understanding and demonstrate their expertise as media professionals and commentators, policy makers and lawyers, managers and researchers in this important area.

Students are exposed to key issues within the field such as: the roll-out of the national broadband network (NBN); cyber-security; legal perspectives of the internet; the role of law and regulation in communications, media and entertainment; and the relationship of intellectual property and technology.
Career options
Career options exist for non-law professionals to enhance prospects as communications policy advisors, editorial and management positions, online/social media consultants, lobbyists, researchers for public interest groups and industry commentators. Practising lawyers can expand their legal specialisations in areas including communications law, intellectual property, media and entertainment law, telecommunications law, technology law and corporate law.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one year of full-time study or two years of part-time study.

Course structure
Two streams are available in the course:
- Students who hold an undergraduate legal qualification must complete six option subjects (48 credit points).
- Students who hold an undergraduate degree in a discipline other than law must complete one core introductory subject (8 credit points) followed by an additional five subjects (40 credit points).

Students who have completed an undergraduate legal qualification should contact the UTS Student Centre during enrolment if their study plan includes the Non-law graduate entrant stream (STM90543).

Subjects are regularly timetabled but not all subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au

Course completion requirements
Select one of the following: 48cp
STM90543 Non-law graduate entrant stream
STM90542 Law graduate entrant stream

Course diagram
Law graduate entrants

<table>
<thead>
<tr>
<th>Master of Communications Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 8-credit-point options</td>
</tr>
<tr>
<td>Total 48 credit points</td>
</tr>
</tbody>
</table>

Non-law graduate entrants

<table>
<thead>
<tr>
<th>Core subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 8-credit-point subject</td>
</tr>
<tr>
<td>Total 8 credit points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Master of Communications Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 8-credit-point options</td>
</tr>
<tr>
<td>Total 40 credit points</td>
</tr>
</tbody>
</table>

Levels of award
To qualify for honours, candidates must attain a weighted average mark of 80 per cent across all subjects attempted.

Articulation with UTS courses
Students enrolled in the Graduate Certificate in Communications Law (C11217) (see page 461) may apply to transfer to the Master of Communications Law. Successful candidates are not awarded the graduate certificate but subjects undertaken within the graduate certificate are recognised and applied towards the master’s.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
e-mail law@uts.edu.au
Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04243v2 Master of Design
Award(s): Master of Design in (name of Design major) (MDesign)
UAC code: 942107 (Autumn semester), 945107 (Spring semester)
CRICOS code: 071751F
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
Unique in Australia, the Master of Design is intellectually vibrant, socially engaging, visionary, practice focused and actively linked to industry. This course is centred around building a design community network. The course has two main components: specialised master classes led by a studio leader and industry partners and theory and technology subjects taught across the program.

The program focuses on and integrates research, industry collaboration, internationalisation and a design culture through the delivery of specialist, core and trans-disciplinary subjects. It provides a postgraduate education that is flexible in both its practice orientation and research integration.

With a focus on design evolution, innovative integration of new technologies, practice and student experimentation, this Master of Design is delivered by experienced studio leaders who are acknowledged leaders in the specific industries and professions.

Course aims
Designed to produce a balance between high levels of specialisation and lateral thinking, the program enables students to examine design from a trans-disciplinary perspective.

It enables students to explore design issues under the supervision of a practice leader, to learn new strategies and the application of research and theory. It supports best practices in postgraduate design education through learning and research strategies that critically examine design practice.

Graduates of this course are leaders in design and related industries through their expertise in product and service development. They are able to utilise strategic processes, creative tools and research skills for innovation in design.

The program provides a suite of subjects for postgraduate designers in the areas of interaction, strategy and enterprise, lighting design, technotextiles, and text and image. Common subjects explore related conceptual challenges and questions of visual expression in the quest to develop useful, usable and resonant designs. These include understanding and articulating the importance of ‘user experience’, the role of design in humanising information, the aesthetic and conceptual dynamics of effective communication, strategic thinking, and aspects of design management, branding and communication.

Career options
Graduates’ careers are enhanced by high-level professional knowledge and skills for the workplace, with possession of specialised knowledge in advanced textiles, space and materials, interaction, sustainable design and innovation.
Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or PTE: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis.

Course structure

Students must complete 72 credit points comprising 36 credit points of core subjects and 36 credit points of design expertise subjects.

Course completion requirements

CBK90665 Design major choice 36cp
CBK90890 Theory and Technology subjects (Design) 36cp
Total 72cp

Exit award

Students can exit this course after completing 48 credit points of specified subjects with a Graduate Diploma in Design (C07119) (see page 419) or after completing 24 credit points of specified subjects with a Graduate Certificate in Design (C11225) (see page 464).

Other information

Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C04244v1 Master of Arts in Non-fiction Writing

Award(s): Master of Arts in Non-fiction Writing (MA)
UAC code: 942530 (Autumn semester), 945530 (Spring semester)
CRICOS code: 071748A
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview

The Master of Arts in Non-fiction Writing is designed for experienced writers who are prepared to undertake advanced work in the growing field of non-fiction. In Australia, the non-fiction book market is much larger than the fiction market. The course builds on the research and teaching strengths in areas of creative writing, journalism, media arts and production, and information and knowledge management.

It focuses on writing and research skills including identifying a subject, using archives, examining methods, exploring genres and structuring material for a full-length non-fiction book. In this course, non-fiction includes biography, life writing, true crime, travel writing, sports writing, the personal essay and other forms of sustained and structured non-fiction narrative. Students can study one genre in depth or explore a range of genres and media.

Students learn valuable skills and work towards developing a major project under the guidance of an academic faculty member with expertise in non-fiction.

Course aims

Graduates of this course develop:

• general and specific skills in non-fiction writing across a range of genres
• an ability to develop and critically revise their own work
• an ability to structure and sustain a book-length narrative
• an understanding of the relationships of writing practice and publication across a range of media and contemporary cultural forms
• a critical knowledge of aesthetic debates and modern developments in non-fiction, and
• an ability to think creatively and critically.

Career options

Career options include biographical and historical writing, freelance writing and editing, life writing, media research, publishing, professional writing, true crime writing, and editing in cultural organisations or government departments.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification may submit a personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or PTE: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

All applicants are required to:

• submit a personal statement and CV
• explain what writing experience they have
• list their publications, if any
• attach one example of their non-fiction writing
• supply written references from people who are familiar with their ability and potential (if the applicant does not have academic or professional qualifications).

Credit recognition

Previous study is assessed at the time of application to determine whether completed study satisfies course completion requirements.

Course duration and attendance

The course is offered on a one-and-a-half-year, full-time or two-and-a-half-year, part-time basis.

Course structure

The course comprises 72 credit points, made up of five core subjects and 36 credit points of design expertise subjects. Students may select subjects beyond the lists of elective subjects with the approval of the graduate adviser. Not all subjects are available each semester.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements

CBK90828 Electives/Sub-major (Non-fiction Writing) 24cp
STM00556 Core subjects (Non-fiction Writing Project) 24cp
STM00557 Core subjects (Non-fiction Writing) 24cp
Total 72cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course program
Example programs are shown below.

Autumn commencing, full time

Year 1

Autumn semester
57031 Non-fiction Writing  8cp
57061 Issues in Documentary  8cp
Select 8 credit points of electives  8cp

Spring semester
57162 Memory and Life Writing  8cp
57163 Non-fiction Project Development  8cp
Select 8 credit points of electives  8cp

Year 2

Autumn semester
57164 Non-fiction Writing Project  16cp
Select 8 credit points of electives  8cp

Spring semester
57164 Non-fiction Writing Project  16cp
Select 8 credit points of electives  8cp

Autumn commencing, part time

Year 1

Autumn semester
57031 Non-fiction Writing  8cp
57061 Issues in Documentary  8cp
Select 8 credit points of electives  8cp

Spring semester
57162 Memory and Life Writing  8cp
Select 8 credit points of electives  8cp

Year 2

Autumn semester
Select 16 credit points of electives  16cp

Spring semester
57163 Non-fiction Project Development  8cp

Year 3

Autumn semester
57164 Non-fiction Writing Project  16cp

Spring semester
Select 8 credit points of electives  8cp

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04245v1 Master of Arts in Teaching English to Speakers of Other Languages

Award(s): Master of Arts in Teaching English to Speakers of Other Languages [MA]
UAC code: 942224 (CSP) [Autumn semester], 942225 (PDFP) [Autumn semester], 942226 [qualified teachers only distance CSP] [Autumn semester], 942227 [qualified teachers only distance PDFP] [Autumn semester], 945225 [PDFP] [Spring semester], 945227 [qualified teachers only distance PDFP] [Spring semester]
CRICOS code: 071629G
Commonwealth-supported place?: Yes
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
UTS is a leading provider of postgraduate language and literacy courses, with academics who are published authors and internationally recognised experts in the field. This course meets the professional development needs of a wide range of English language teachers in Australia or internationally; teaching children, teenagers or adults. It caters to those seeking an initial teaching qualification in teaching English to adult speakers of other languages. It is also well suited to applicants who already possess a teaching qualification and wish to gain a specialist degree in the field as they are eligible for credit recognition. The course consists of subjects that equip teachers with skills and in-depth knowledge in the areas of teaching practice, pedagogical grammars, global Englishes, discourse analysis, phonology and pronunciation, language teaching technologies, language development, language for specific purposes and more.
This course is designed for those who wish to pursue a specialist area and to understand in more detail the theoretical basis of TESOL practice. The course is tailored to cater to the needs of participants who as yet have no teaching experience, as well as to the needs of participants with experience but no recognised initial teaching qualification. The subjects are designed for those with teacher qualifications and experience, particularly in the field of TESOL. The course features flexible study options with classes held at times suitable for full-time workers. Students who receive a minimum of 24 credit points of credit recognition may complete the course by distance, but only if relevant distance subjects are selected.
The course explicitly meets the needs of students and educators in the following contexts:
• working with migrants and Indigenous students across all levels of education
• teachers wishing to change discipline areas
• teaching English in countries outside of Australia
• international students wishing to study TESOL at master's level.

Course aims
The course aims to produce TESOL teachers who are knowledgeable, reflective and engaging in their practice, have well developed interpersonal skills, are keen to put current developments in learning and teaching into practice, and have a commitment to lifelong learning.
Career options
Career options include a teacher of English as a second language in Australia or a teacher of English in overseas contexts (applicants are advised to check with potential employing bodies regarding employment requirements).

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 70-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Local applicants apply through the Universities Admissions Centre.

Credit recognition
Graduates of the Graduate Certificate in Teaching English to Speakers of Other Languages (C11223) (see page 463), or equivalent teaching qualification (such as a primary or secondary school teaching qualification or an adult education teaching qualification), are eligible for 24 credit points of credit recognition.

Graduates of the Graduate Diploma in Teaching English to Speakers of Other Languages (C07116) (see page 417), or equivalent postgraduate teaching qualification, are eligible for 48 credit points of credit recognition.

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis.

Students who receive a minimum of 24 credit points of credit recognition may complete the course by distance, but only if relevant distance subjects are selected.

The subjects in STM90529 are run in standard weekly mode for TESOL students, except for 010071 Professional Practice 2 Language Literacy and Numeracy, which is run in block mode.

Course structure
The course comprises 72 credit points, made up of five compulsory core subjects (totalling 30 credit points) and seven elective subjects (totalling 42 credit points).

Industrial training/professional practice
There is a practicum placement for subjects 010070 Professional Practice 1 Language Literacy and Numeracy and 010071 Professional Practice 2 Language Literacy and Numeracy.

Course completion requirements
013952 Research Perspectives 6cp
CBK90831 Electives (TESOL) 42cp
STM90529 Core subjects (TESOL) 24cp
Total 72cp

Course program
The following examples show typical full-time and part-time programs for qualified teachers with credit recognition, and without credit recognition for those seeking an initial teaching qualification. Qualified teachers who receive a minimum of 24 credit points of credit recognition may complete the course by distance, but only if relevant distance subjects are selected.

Seeking an initial teaching qualification (no credit recognition), FT

Year 1

Autumn semester
013102 Introduction to Language 6cp
013958 Language Teaching Methodology 6cp
010070 Professional Practice 1 Language Literacy and Numeracy 6cp
010071 Professional Practice 2 Language Literacy and Numeracy 6cp

Spring semester
Select 24 credit points of electives 24cp

Year 2

Autumn semester
013952 Research Perspectives 6cp
Select 18 credit points of electives 18cp

Teaching qualification graduates with credit recognition, FT

Year 1

Autumn semester
013952 Research Perspectives 6cp
Select 18 credit points of electives 18cp

Spring semester
Select 24 credit points of electives 24cp

Seeking an initial teaching qualification (no credit recognition), PT

Year 1

Autumn semester
010070 Professional Practice 1 Language Literacy and Numeracy 6cp
013958 Language Teaching Methodology 6cp

Spring semester
010071 Professional Practice 2 Language Literacy and Numeracy 6cp
013102 Introduction to Language 6cp

Year 2

Autumn semester
Select 12 credit points of electives 12cp

Spring semester
Select 12 credit points of electives 12cp

Teaching qualification graduates with credit recognition, PT

Year 1

Autumn semester
013952 Research Perspectives 6cp
Select 6 credit points of electives 6cp

Spring semester
Select 12 credit points of electives 12cp

Year 2

Autumn semester
010070 Professional Practice 1 Language Literacy and Numeracy 6cp
Select 6 credit points of electives 6cp

Spring semester
Select 12 credit points of electives 12cp
Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Teaching English to Speakers of Other Languages (C11223) (see page 463), the Graduate Diploma in Teaching English to Speakers of Other Languages (C07110) (see page 417) and the Master of Arts in Teaching English to Speakers of Other Languages.

Other information

Further information is available from UTS: Education at:
www.education.uts.edu.au

Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info / Register.aspx

C04246v1 Master of Health Services Management and Planning

Award(s): Master of Health Services Management and Planning (HSMPlan)
UAC code: 942811 (Autumn semester), 945811 (Spring semester)
CRICOS code: 071627K
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Note(s)
This course offers a mid-year intake for local and international students.

Overview

This is a comprehensive course in health services planning and management and aims to expand students’ knowledge and future career opportunities. The course develops students’ knowledge and skills, which leads to an enhanced capacity to plan and manage health services in a diverse range of health settings.

Graduates of this course are exposed to academic and industry leaders who share their experience and knowledge to facilitate insight into the contemporary health service management environment.

Course aims

This course is designed to prepare new, aspiring, and middle health service planners and managers to assume a leadership role in the strategic and operational management of a wide range of health services and facilities. The content aims to develop skills in planning and evaluating health services, understanding health needs, and managing people, resources, systems and processes within health services to meet the changing needs of communities, clinicians, governments and organisations.

Career options

Career options include positions as managers and/or planners in health authorities, hospitals, primary and community care, aged care services and other healthcare facilities in the public, private, not-for-profit, government and non-government health sectors.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

This evidence may include extensive relevant work experience in a health or human services field.

Applicants must have at least one year’s full-time equivalent experience in a medium to large organisation, preferably in the health or human services area. Work experience undertaken in small work settings (e.g. private practice settings with a small number of professionals) or as part of intern requirements are not accepted.

Applicants who do not have an undergraduate degree but who have extensive relevant work experience in a health or human services field and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course duration is two years of full-time or four years of part-time study.

Subjects are offered via on-campus study. Part-time students usually study two subjects a semester and full-time students usually study four subjects a semester.

Course structure

Students must complete a total of 96 credit points, comprising 14 core subjects offered by UTS: Health and UTS: Business and two electives offered by UTS: Health and UTS: Design, Architecture and Building. Students who wish to undertake an elective that is not listed should seek advice from UTS: Health.

Course completion requirements

CBK90397 Electives 12cp
STM90535 Core subjects (Health Services Management and Planning) 66cp
STM90713 Core subjects 18cp
Total 96cp

Course program

Example programs are shown below.

Autumn commencing, full time

Year 1

Autumn semester
21720 Human Resource Management 6cp
92606 Issues in Australian Health Services 6cp
92847 Planning and Evaluating Health Services 6cp
92917 Using Health Care Data for Decision Making 6cp

Spring semester
92023 Health Services Resource Management 6cp
92296 Epidemiology and Population Health 6cp
92887 Organisational Management in Health Care 6cp
Select 6 credit points from the following options: 6cp
CBK90397 Electives 12cp

Year 2

Autumn semester
92050 Policy, Power and Politics in Health Care 6cp
92297 Health Systems and Change 6cp
26703 Introductory Health Economics 6cp
92946 Project Part A 6cp

Spring semester
92051 Health Services Management and Legal Issues 6cp
92295 Advanced Health Services Planning 6cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
Select 6 credit points from the following options: 6cp
CBK90397 Electives 12cp
Other information

Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Dr Jennifer Bichel-Findlay
Course Coordinator
e-mail Jennifer.Bichel-Findlay@uts.edu.au
www.nmh.uts.edu.au

C04247v1 Master of Midwifery
Award(s): Master of Midwifery (MMid)
Master of Midwifery in Health Research (MMid)
UAC code: 942800 (Autumn semester), 942801 (Health Research) (Autumn semester), 945800 (Spring semester), 945801 (Health Research) (Spring semester)
CRICOS code: Pending
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Note(s)

Students admitted to the Master of Midwifery (Conversion) before 2011 should refer to the course entry in the 2010 handbook.
This course is not offered to international students.

Overview

This course aims to provide registered midwives with an opportunity to develop their practice and professional roles and to develop the skills, attitudes and knowledge to meet the developing role of a midwife. In addition, the course aims to provide students with an avenue through which to further their clinical, research, teaching, leadership and/or management roles. The course is designed to offer students the opportunity to customise their program to meet personal learning needs or workplace requirements.
The course enhances the professional development of the midwife through the investigation of varied theoretical perspectives pertinent to midwifery issues. Students develop a complex understanding of issues related to interdisciplinary collaboration in the development of maternity services, and engage in critical thinking in order to inform clinical judgment and decision-making within the midwifery context of woman-centred practice. Recognising and building on extensive midwifery practice, the course prepares students as scholars, leaders and change agents within midwifery.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must hold current registration as a midwife in Australia. Registered midwives who have completed a certificate in midwifery leading to registration as a midwife or completed a graduate diploma in midwifery or equivalent leading to registration as a midwife are also considered eligible.
Where large numbers of applicants are eligible for admission to any of the faculty’s courses and places are limited, preference is given on the basis of:
• general educational qualifications
• previous academic grades, and
• CV which demonstrates professional experience and activities, e.g. post-registration certificates and scholarly activities such as research and publications.

Applicants to the Master of Midwifery in Health Research must have completed four subjects (24 credit points) at the postgraduate level (excluding the core subjects in the Health Research major).
Students’ current midwifery registration will be confirmed via the National Register of Practitioners at:
www.nmh.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who hold an existing Graduate Diploma in Midwifery are eligible to apply for credit recognition in the form of exemptions from four specified subjects (24 credit points).

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or three-year, part-time basis.

Course completion requirements
Select 72 credit points from the following options: 72cp
- STM90530 Level 1 subjects (Midwifery) 24cp
- STM90531 Level 2 subjects (Midwifery) 24cp
- STM90532 Level 3 subjects (Midwifery) 24cp
- MAJ00215 Health Research 72cp

Total 72cp

Course program
An example course program is shown below.

Autumn commencing, part time

Year 1
Autumn semester
- 92020 Midwifery in Context 6cp
- 92027 Evidence-based Practice (Midwifery) 6cp

Spring semester
- 92021 Perinatal Mental Health 6cp
- 92060 Family and Community Health Practice 6cp

Year 2
Autumn semester
- 92025 Models of Midwifery Care 6cp
- 92050 Policy, Power and Politics in Health Care 6cp

Spring semester
- 92018 Building Resilience in Mothers and Midwives 6cp
- 92012 Research in Health 6cp

Year 3
Autumn semester
- 92046 Project Part A 6cp
Select 6 credit points from the following options: 6cp
- CBK90903 Electives (Midwifery)
- Spring semester
- 92038 Midwifery Practice Development 6cp
Select 6 credit points from the following options: 6cp
- CBK90904 Electives (Midwifery)
- Other information
Further information is available from: UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Maralyn Foureur
Course coordinator
telephone +61 2 9514 4914
e-mail Maralyn.Foureur@uts.edu.au
www.health.uts.edu.au

C04248v1 Master of Media Arts and Production

Award(s): Master of Media Arts and Production [MMAP]
UAC code: 942503 (Autumn semester), 945503 (Spring semester)
CRICOS code: 0327160
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
This course is designed for graduates in media production, or those with significant experience in the field, to allow them to advance their skills and theoretical understanding of the consumption and production of media products. The course further develops professional, specialised skills and knowledge in at least one area of media production: digital media, sound, interaction and moving image. With guidance from faculty experts, students can also create a major piece of production work in film, video, sound, radio, digital media, performance or installation.

Course aims
This course aims to provide students with the opportunity to develop advanced production and conceptual skills in media production. Through the research and production of a creative project, students increase their capacity for developing independent, creative and innovative projects. The course gives students the option to experience the creative and technical development of a significant production, or to focus their skills in one key area of the media industries.

Career options
Career options include taking part in a creative team as writer, producer, director, or working in particular roles in production and post-production of moving image, sound, digital media and interaction. Graduates have the capacity and experience to develop, initiate and produce their own media projects.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students who have successfully completed the graduate certificate or the graduate diploma in the articulated program are eligible for credit recognition for completed subjects.

Course duration and attendance
The course is one-and-a-half years of full-time or two-and-a-half years of part-time study.

Course structure
Students complete 72 credit points of study made up of three core subjects and six elective/sub-major subjects.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.
Course completion requirements
CBK90800 Electives/Sub-major (MAP)  48cp
STM90555 Core subjects (Media Arts and Production)  24cp
Total 72cp

Course program
Below are examples of typical programs for full- and part-time students. Students can choose to complete core subjects and elective/sub-major subjects in any order, however, prerequisites may apply.

Students considering enrolling in the Journalism or Screenwriting sub-major should commence their sub-major as soon as possible or in their second semester, so as to satisfy all prerequisite requirements and to complete on time.

Autumn commencing, full time
Year 1
Autumn semester
57167 Moving Image  8cp
57989 Mise-en-Scene  8cp
57168 Sound and Interaction  8cp
Spring semester
Select 24 credit points of electives  24cp
Year 2
Autumn semester
Select 24 credit points of electives  24cp

Autumn commencing, part time
Year 1
Autumn semester
57167 Moving Image  8cp
57989 Mise-en-Scene  8cp
Spring semester
Select 8 credit points of electives  8cp
Year 2
Autumn semester
57168 Sound and Interaction  8cp
Select 8 credit points of electives  8cp
Spring semester
Select 8 credit points of electives  8cp
Year 3
Autumn semester
Select 16 credit points of electives  16cp
Spring semester
Select 8 credit points of electives  8cp
Year 4
Autumn semester
Select 8 credit points of electives  8cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Media Arts and Production (C11227) (see page 465), the Graduate Diploma in Media Arts and Production (C07120) (see page 420) and the Master of Media Arts and Production.

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C04249v1 Master of Arts in Training and Human Resource Development
Award(s): Master of Arts (MA)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: Hong Kong

Note(s)
This is an offshore course offered in Hong Kong. Students wanting to study in Australia should apply for the equivalent onshore course, the Master of Arts (C04231) (see page 347).

Overview
This course is intended for those who wish to develop their knowledge and competence in the theory and practice of management and leadership in international training and educational resources.

This course has been designed to meet the educational needs of training professionals and human resource development managers. The subjects are drawn from the general masters-level subject bank and have been selected to offer a specific focus on human resource development. Students study the same core subjects as students enrolled in the Master of Arts (no specified major) (C04231) (see page 347). It is ideally suited to those seeking a qualification for strategic positions in learning and development units, human resource management, vocational and workplace policy, organisational learning areas, and those who are responsible for leading and facilitating formal and informal learning in the workplace.

Course aims
This course aims to:
• provide opportunities for participants to relate new knowledge and skills to their own practice
• promote the notion of the reflective practitioner, i.e. educate participants to critically examine and learn from their professional experience and that of others
• develop strategic ways of analysing practice situations, modes of analysis and research which account for the complexity of HRD practices and reveal ways of working within that complexity
• enable students to consolidate or extend their specialist professional competence as practitioners in fields of practice relating to human resources development
• strengthen students’ understanding of the relevant theoretical underpinning, particularly in relation to knowledge about adult learning and development
• enable students to apply new understandings about training, leadership and management to their own professional practice.

Career options
Career options include educational and training leadership roles in various capacities, such as policy making, research, consulting, planning, curriculum development, and management in teaching and learning organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants previous qualifications should be in a related field of study. In addition to the English language requirements detailed below, other acceptable equivalent English language qualifications as approved by UTS Academic Board, are, for example, the successful completion of a UTS recognised course that was taught in English and was equivalent to at least one full time or full time study or evidence of successful completion of a diploma or advanced diploma from TAFE and other private colleges recognised by UTS; or completion of a UTS recognised foundation program with a pass in a unit of study in English for Academic Purposes with a duration of at least one semester.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course duration is four semesters of full-time or six semesters of part-time study.

Course structure
This course is awarded on completion of eight 6-credit-point subjects. All subjects are offered in face-to-face mode and delivered through a combination of intensive weekend seminars, study group meetings, self-directed study and online distance support.

Course completion requirements
STM00645 Core subjects 12cp
STM00773 Training and Human Resource Development 36cp
Total 48cp

Course program
A typical course program is shown below.

Year 1
May to July semester
013120 The Psychology of Adult Development 6cp
013122 Understanding Adult Education and Training 6cp
August to October semester
013142 Adult Learning and Program Development 6cp
013162 Organisational Learning 6cp
Year 2
May to July semester
013165 Leading Learning in the Workplace 6cp
013136 Developing People and Teams 6cp
August to October semester
013952 Research Perspectives 6cp
013951 Learning and Change 6cp

Professional recognition
Courses in the postgraduate program in UTS: Education have previously been accredited with the Education Board of Hong Kong for over 10 years. UTS has applied for this new course to be accredited with the Hong Kong Education Board so that graduates have a qualification that is recognised in both Hong Kong and Australia. The outcome of this application is anticipated to be known by the end of Semester 1, 2012.

Other information
Further information is available from UTS: Education at: www.education.uts.edu.au
Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx

C04250V1 Juris Doctor Master of Business Administration
Awarded: Master of Business Administration (MBA)
Juris Doctor (JD)
UAC code: 941436 (Summer session), 942436 (Autumn semester), 945436
(Spring semester)
CRICOS code: 074765J
Commonwealth-supported place?: No
Load credit points: 192
Course EFTSL: 4
Location: City campus

Overview
The Juris Doctor Master of Business Administration (JDMBA) is a graduate law and business degree that builds on the established reputations of UTS: Law and UTS: Business to provide high-calibre, graduate-level education in the theory and practice of the law and business. It is specifically designed for graduates of disciplines other than law. This course provides students with an integrated exposure to professional practice in both legal and business contexts.

Career options
Career options include, but are not limited to, lawyer within a private firm, government department or community law centre, regulatory affairs and policy adviser in the public or private sector or legal specialisation related to students’ previous degree or enhanced career options within an existing professional sphere.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Previous qualifications must be in a discipline other than law or a law qualification from an overseas jurisdiction. Admission is at the discretion of the associate dean (teaching and learning), Faculty of Law.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Course duration and attendance
The maximum course duration is four years of full-time study. Subjects may also be available in Summer session.

Course structure
The course comprises a total of 192 credit points. The study components for course completion are as follows:

- 96 credit points of compulsory core law subjects (13 subjects)
- 48 credit points of compulsory core business subjects (eight subjects)
- 24 credit points of law options (three subjects)
- 24 credit points of business law sub-major subjects (four subjects).

Industrial training/professional practice
To practise as a lawyer in NSW, students need to successfully complete an accredited legal qualification and an accredited course of practical legal training (PLT), which UTS offers through its PLT program. Students enrolled in the Juris Doctor Master of Business Administration who wish to practise as lawyers in NSW can complete the requirements by undertaking a PLT program, such as the UTS Practical Legal Training Program.

Course completion requirements
STM90074 Core stream 96cp
STM90345 Core subjects 48cp
SMJ09059 Business Law 24cp
CBK90858 Options (JD) 24cp
Total 192cp

Course program
Students in the standard full-time program enrol in between 24 and 26 credit points a semester. Core subjects are timetabled every semester. The introductory core law subject 70120 Legal Method and Research and select core subjects may be timetabled in Summer session. Optional subjects are regularly timetabled but not all options are offered in any one semester. Optional subjects are timetabled subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au Juris Doctor students who wish to study postgraduate law options may apply through e-Request providing evidence of general or professional experience that demonstrates potential to complete the subject at master’s level. Example full-time programs are shown below.

Autumn commencing, full time

Year 1

Autumn semester
21878 Organisational Dialogue: Theory and Practice 6cp
70120 Legal Method and Research 6cp
70115 Perspectives on Law 8cp
70211 Contracts 8cp

Spring semester
21800 Management and Organisations 6cp
22747 Accounting for Managerial Decisions 6cp
23706 Economics for Management 6cp
70218 Criminal Law 8cp

Year 2

Autumn semester
25742 Financial Management 6cp
70311 Torts 8cp
70317 Real Property 8cp

Spring semester
70616 Australian Constitutional Law 8cp
70517 Equity and Trusts 8cp
70417 Corporate Law 8cp

Year 3

Autumn semester
70617 Administrative Law 8cp
21844 Managing Work and People 6cp
24734 Marketing Management 6cp
70327 Commercial Law 6cp

Spring semester
21715 Strategic Management 6cp
70717 Evidence and Criminal Procedure 6cp
Select 12 credit points from the following options: 12cp
SMJ09059 Business Law 24cp

Year 4

Autumn semester
75421 Civil Litigation 6cp
75420 Ethics and Professional Conduct 6cp
Select 6 credit points from the following options: 6cp
SMJ09059 Business Law 24cp

Spring semester
Select 24 credit points from the following options: 24cp
CBK90858 Options (JD) 24cp

Spring commencing, full time

Year 1

Autumn semester
21878 Organisational Dialogue: Theory and Practice 6cp
70120 Legal Method and Research 6cp
70115 Perspectives on Law 8cp
70211 Contracts 8cp

Year 2

Autumn semester
21800 Management and Organisations 6cp
22747 Accounting for Managerial Decisions 6cp
23706 Economics for Management 6cp
70218 Criminal Law 8cp

Year 3

Autumn semester
25742 Financial Management 6cp
70311 Torts 8cp
70317 Real Property 8cp

Year 4

Autumn semester
21715 Strategic Management 6cp
70717 Evidence and Criminal Procedure 6cp
Select 12 credit points from the following options: 12cp
SMJ09059 Business Law 24cp

Levels of award
The Juris Doctor component of the JDMBA may be awarded with honours. An additional year of study is not required. To qualify for honours, a student must complete 7802 LLM Project by Research within CBK90858 Options (JD). The rules governing the Juris Doctor with honours (current and pre-2012) can be found in Postgraduate coursework information (see page 99) in the handbook. Please consult the Coursework research page on the UTS: Law website for information on how to apply to enrol.

Articulation with UTS courses
Students who completed 8-credit-point postgraduate electives as part of their Juris Doctor (CO4263) (see page 354) candidature may apply to have these subjects credited towards the Master of Laws (C04143) (see page 328) or the Doctor of Juridical Science (C02027) (see page 474), up to a maximum of 24 credit points.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Attorney, such exemptions. Students intending to seek registration for the purpose of registration as a patent attorney or trade marks Patent and Trade Marks Attorneys (PSB) has no authority to recognise, UTS may grant successful applicants advanced standing or exemption credit recognition on student visas to complete the course within the standard full- student visa regulations also require international students studying international students must enrol full time and on campus. Australian Visa requirement: To obtain a student visa to study in Australia, International students

Overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 The English proficiency requirement for international students or local Previous qualifications can be in any discipline. Admission is at the discretion of the associate dean (teaching and learning). The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place. International students Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition UTS may grant successful applicants advanced standing or exemption from one or more subjects but the Professional Standards Board for Patent and Trade Marks Attorneys (PSB) has no authority to recognise, for the purpose of registration as a patent attorney or trade marks attorney, such exemptions. Students intending to seek registration need to seek exemption from the PSB. Exemptions are generally not granted for subjects not primarily directed to Australian law. Further information is available from: The Secretary Professional Standards Board for Patent and Trade Marks Attorneys PO Box 200 Woden ACT 2606 telephone +61 2 6283 2345 fax +61 2 6285 1048 email mail.psb@ipaustralia.gov.au www.psb.gov.au

Course duration and attendance The course can be completed in one-and-a-half years of full-time study or two-and-a-half years of part-time study. Students commencing in Spring semester require an additional semester to complete the course. Most subjects within this course can be studied by distance online and require no on-campus attendance. All lectures, tutorials, course materials and assessments are distributed by a combination of web-based technology and electronic media. Students conduct all communication with the lecturer by electronic means. A number of subjects are concurrently offered in traditional face-to-face, on-campus format.

Course completion requirements CBK90711 Choice 48cp Total 48cp

Articulation with UTS courses Subjects undertaken within the Graduate Certificate in Trade Mark Law and Practice (C11300) (see page 445). Graduate Certificate in Intellectual Property (C11229) (see page 466) and Graduate Diploma in Intellectual Property (C06099) (see page 394) are recognised within the Master of Intellectual Property. Students enrolled in either graduate certificate may apply to internally transfer to the master's program. Candidates are not awarded the graduate certificate but subjects undertaken are applied towards the master's program.

Professional recognition The educational requirements for registration as a patent attorney and trade marks attorney in Australia with the Australian Government's Professional Standards Board for Patent and Trade Marks Attorneys can be fulfilled by completing this course. Prospective students should check with the Patent Attorney Registration Board for specific subjects required to be completed for registration at: www.psb.gov.au/patreg.htm

Other information Further information for future students is available from: telephone +61 2 9514 3660 email law@uts.edu.au Further information for current students is available from: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au

C04252v1 Master of Pharmacy Award(s): Master of Pharmacy (MPharm) UAC code: 942700 [Autumn semester] CRICOS code: 074915M Commonwealth-supported place?: Yes Load credit points: 120 Course EFTSL: 2.5 Location: City campus

Overview This course is a focused, professional postgraduate degree leading to eligibility for registration as a pharmacist. The core component provides students with the required detailed knowledge, skills and experience to achieve this. Elective subjects provide students with the opportunity to tailor their study to their individual career focus. The course incorporates a range of subjects relevant to contemporary pharmacy practice, including professional services, integrated therapeutics and the Pharmaceutical sciences. Students undertake clinical practice in a variety of settings throughout the degree.
The course is delivered in an integrated, practice-oriented and student-focused manner, making use of innovative technologies and strong links with the pharmacy profession. After successful completion of this course and a subsequent pre-registration period, students are eligible for registration as a pharmacist.

This course is for students who have completed an undergraduate science or related bachelor’s degree and wish to enter the healthcare profession as a pharmacist. This degree not only provides candidates with the knowledge, skills and experience necessary to gain registration, but also prepares them for expanded practice in emerging professional environments, and within changing medical, social, political and regulatory contexts. Candidates have the opportunity to develop leadership skills, gain experience with emerging technologies, and learn from internationally recognised researchers and teachers.

Career options
Career options for registered pharmacists include areas such as: community pharmacy; hospital pharmacy; research and development; the pharmaceutical industry; consultancy; education; government and policy; the armed forces; and non-profit organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. Applicants must have also completed the following at a tertiary level:
• two pharmacology subjects
• two chemistry subjects
• one biochemistry subject
• one human physiology subject, and
• one mathematics or statistics subject.
A human biology subject is also desirable. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.5 overall with a 7.0 in each subtest; or TOEFL: paper based: 610-633 overall with TWE of 5.0, internet based: 102-109 overall with a score of 24 for reading and listening, 23 for speaking and 27 for writing; or DEEP: B+; PTE: 73-78 overall with a 65 in each subtest; or CAE: 74-79 Eligibility for admission does not guarantee offer of a place.

International students
Upon graduation, international students intending to apply for provisional registration with the Pharmacy Board of Australia must meet the Pharmacy English Language Skills Registration Standard. For further information, refer to the following standards:
• Pharmacy English Language Skills Registration Standard
• Pharmacy Implementation of the English Language Skills Registration Standard.
These are available for download at: www.pharmacyboard.gov.au/Registration-Standards.aspx Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Shortlisted applicants who meet the entry requirements receive a conditional offer and are required to sit an interview.

International students
International students should apply via UTS: International.

Course duration and attendance
The course is an intensive two-year, full-time degree which is equivalent to a three-year degree. In addition to coursework during semesters, students are required to undertake weekly clinical placements during semester and block clinical placements during mid-semester breaks.

Course structure
This course comprises a total of 120 credit points. Students undertake a total of 16 6-credit-point subjects and three clinical subjects (two 6-credit-point subjects and one 12-credit-point subject).

Course completion requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core stream</td>
<td>108cp</td>
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<tr>
<td>Electives</td>
<td>12cp</td>
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<tr>
<td>Total</td>
<td>120cp</td>
</tr>
</tbody>
</table>

Course program
A typical course program is provided below.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>96001</td>
<td>Introduction to Pharmacy</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96002</td>
<td>Concepts in Pharmaceutical Sciences</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96003</td>
<td>Pharmacoeconomics</td>
<td>6cp</td>
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<td></td>
<td>96004</td>
<td>Professional Services 1</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96015</td>
<td>Clinical Practice 1</td>
<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>96005</td>
<td>Professional Services 2</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96006</td>
<td>Integrated Therapeutics 1</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96007</td>
<td>Drug Disposition</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96008</td>
<td>Evidence Based Practice</td>
<td>6cp</td>
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<td></td>
<td>96016</td>
<td>Clinical Practice 2</td>
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Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>96009</td>
<td>Professional Services 3</td>
<td>6cp</td>
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<td></td>
<td>96010</td>
<td>Integrated Therapeutics 2</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96011</td>
<td>Primary Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96017</td>
<td>Clinical Practice 3</td>
<td>6cp</td>
</tr>
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<td>Select 6 credit points of electives</td>
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<td>6cp</td>
</tr>
<tr>
<td>Spring</td>
<td>96012</td>
<td>Professional Services 4</td>
<td>6cp</td>
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<tr>
<td></td>
<td>96013</td>
<td>Integrated Therapeutics 3</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>96014</td>
<td>Molecule to Market</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td></td>
<td>6cp</td>
</tr>
</tbody>
</table>

Professional recognition
Completion of this course followed by a compulsory pre-registration training period and Intern Training Program leads to eligibility for registration with the Pharmacy Board of Australia.

Other information
For further information, contact UTS: Pharmacy: email pharmacy@uts.edu.au www.pharmacy.uts.edu.au

C04254v1 Master of Arts in Communication Management
Award(s): Master of Arts in Communication Management (MA)
UAC code: 942509 (Autumn semester), 945509 (Spring semester)
CRICOS code: 01898F
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Overview
The Master of Arts in Communication Management provides advanced contemporary study and practice in professional communication management. It is suitable for current and aspiring practitioners who want to attain the relevant expertise to achieve their career goals. Students can major in the areas of Public Relations, Integrated Communication, or Organisational Change and Communication. Alternatively, students can elect to complete generalist studies which provide a foundation for the broad field of communication management practice.

Academic staff involved in the course have substantial industry experience and have undertaken research in the field.

Course aims
Graduates of this course have:
• advanced understanding of communication and its management
• the ability to synthesise communication theory and practice
• the ability to analyse, design, cost and evaluate a communication strategy
• a sensitivity to ethical and legal issues related to communication
• a capacity to reflect on the roles and responsibilities of communicators
• the capacity to apply perspectives that are intercultural and global, and
• a sensitivity to issues of exclusion, equity and justice.
A full list of the graduate attributes of the course is available from UTS: Communication.

Career options
Career options cover the fields of public relations and communication management, including those positions related to communication advising, community relations, corporate communication, integrated communication, internal communication, international communication, media liaison or public affairs.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students who have successfully completed the Graduate Diploma in Communication Management (CD6105) (see page 399), Graduate Diploma in Public Relations (CD6103) (see page 398), Graduate Diploma in Strategic Communication (CD6101) (see page 395), or the Graduate Diploma in Organisational Change and Communication (CD6102) (see page 396) are eligible for credit recognition for completed subjects.

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or equivalent part-time basis.

Course structure
The course totals 72 credit points of study made up of three core foundation subjects (24 credit points), two core master’s subjects (16 credit points), a major choice (24 credit points) and an elective (8 credit points).
Students can choose one of three majors, each consisting of three compulsory 8-credit-point subjects, or select No specified major for the generalist course.
The No specified major option includes two compulsory 8-credit-point subjects and an 8-credit-point elective.
Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STNM0751</td>
<td>Core foundation subjects</td>
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<tr>
<td>STNM0769</td>
<td>Core masters subjects</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90849</td>
<td>Major choice</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90848</td>
<td>Elective</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>72cp</td>
</tr>
</tbody>
</table>

Course program
Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

Public Relations major - Autumn commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57022</td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57023</td>
<td>Communicating with Publics</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57026</td>
<td>Strategic Communication and Negotiation</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57025</td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57182</td>
<td>Rethinking Media</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57028</td>
<td>Research for Communication Professionals</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57024</td>
<td>Managing Public Communication Strategies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 8 credit points from the following options:</td>
<td>CBK90848 Elective</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57025</td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57182</td>
<td>Rethinking Media</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Public Relations major - Spring commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57022</td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57023</td>
<td>Communicating with Publics</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57026</td>
<td>Strategic Communication and Negotiation</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57025</td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57182</td>
<td>Rethinking Media</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57028</td>
<td>Research for Communication Professionals</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57024</td>
<td>Managing Public Communication Strategies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 8 credit points from the following options:</td>
<td>CBK90848 Elective</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57025</td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57182</td>
<td>Rethinking Media</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Public Relations major - Autumn commencing, part time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57022</td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57023</td>
<td>Communicating with Publics</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57024</td>
<td>Managing Public Communication Strategies</td>
<td>8cp</td>
</tr>
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</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 8 credit points from the following options:</td>
<td>CBK90848 Elective</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57025</td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>57182</td>
<td>Rethinking Media</td>
<td>8cp</td>
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</tbody>
</table>

Year 3

<table>
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<th>Semester</th>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Select 8 credit points from the following options:</td>
<td>CBK90848 Elective</td>
<td>8cp</td>
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</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Organisational Change and Communication - Spring commencing, full time**

**Year 1**

Spring semester

57022 | Foundations of Communication | 8cp
57023 | Communicating with Publics | 8cp
57025 | Intercultural and International Communication | 8cp

Spring semester

57028 | Research for Communication Professionals | 8cp
57035 | Organisational Change and Communication | 8cp
57994 | Managing Organisational Communication | 8cp

**Year 2**

Autumn semester

Select 8 credit points from the following options: 8cp
57995 | Learning in Organisations | 8cp
57182 | Rethinking Media | 8cp

Spring semester

Select 8 credit points from the following options: 8cp
CBK90848 | Elective | 8cp

**Organisational Change and Communication - Autumn commencing, part time**

**Year 1**

Autumn semester

57028 | Research for Communication Professionals | 8cp
57035 | Organisational Change and Communication | 8cp
57994 | Managing Organisational Communication | 8cp

Spring semester

57995 | Learning in Organisations | 8cp
57182 | Rethinking Media | 8cp

Select 8 credit points from the following options: 8cp
CBK90848 | Elective | 8cp

**Year 2**

Autumn semester

Select one of the following: 8cp
57025 | Intercultural and International Communication | 8cp
57182 | Rethinking Media | 8cp

Spring semester

Select one of the following: 8cp
57025 | Intercultural and International Communication | 8cp
57182 | Rethinking Media | 8cp

**Organisational Change and Communication - Spring commencing, part time**

**Year 1**

Spring semester

57022 | Foundations of Communication | 8cp
57023 | Communicating with Publics | 8cp
57025 | Intercultural and International Communication | 8cp

Spring semester

57995 | Learning in Organisations | 8cp
57182 | Rethinking Media | 8cp

Select 8 credit points from the following options: 8cp
CBK90848 | Elective | 8cp

**Year 2**

Autumn semester

Select one of the following: 8cp
57025 | Intercultural and International Communication | 8cp
57182 | Rethinking Media | 8cp

Spring semester

Select 8 credit points from the following options: 8cp
CBK90848 | Elective | 8cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
### No specified major - Autumn commencing, full time

#### Year 1

##### Autumn semester
- 57022  Foundations of Communication  8cp
- 57023  Communicating with Publics  8cp
- Select one of the following:  8cp
  - 57028  Research for Communication Professionals  8cp
  - 57035  Organisational Change and Communication  8cp

##### Spring semester
- 57025  Intercultural and International Communication  8cp
- 57182  Rethinking Media  8cp
- Select 8 credit points from the following options:  8cp
  - 57024  Managing Public Communication Strategies  8cp
  - CBK90848  Elective  8cp

#### Year 2

##### Autumn semester
- Select one of the following:  8cp
  - 57035  Organisational Change and Communication  8cp
  - 57028  Research for Communication Professionals  8cp
- Select 16 credit points from the following options:  16cp
  - 57024  Managing Public Communication Strategies  8cp
  - CBK90848  Elective  8cp

##### Spring semester
- 57025  Intercultural and International Communication  8cp
- Select 8 credit points from the following options:  8cp
  - 57182  Rethinking Media  8cp
  - CBK90848  Elective  8cp

### No specified major - Spring commencing, full time

#### Year 1

##### Spring semester
- 57022  Foundations of Communication  8cp
- 57023  Communicating with Publics  8cp
- Select 8 credit points from the following options:  8cp
  - 57024  Managing Public Communication Strategies  8cp
  - CBK90848  Elective  8cp

#### Year 2

##### Autumn semester
- 57024  Managing Public Communication Strategies  8cp
- Select one of the following:  8cp
  - 57035  Organisational Change and Communication  8cp
  - 57028  Research for Communication Professionals  8cp
- Select 8 credit points from the following options:  8cp
  - CBK90848  Elective  8cp

##### Spring semester
- 57025  Intercultural and International Communication  8cp
- Select 8 credit points from the following options:  8cp
  - 57182  Rethinking Media  8cp
  - CBK90848  Elective  8cp

### No specified major - Spring commencing, part time

#### Year 1

##### Spring semester
- 57022  Foundations of Communication  8cp
- 57023  Communicating with Publics  8cp
- Select 8 credit points from the following options:  8cp
  - 57024  Managing Public Communication Strategies  8cp
  - CBK90848  Elective  8cp

#### Year 2

##### Autumn semester
- 57024  Managing Public Communication Strategies  8cp
- Select one of the following:  8cp
  - 57035  Organisational Change and Communication  8cp
  - 57028  Research for Communication Professionals  8cp
- Select 8 credit points from the following options:  8cp
  - CBK90848  Elective  8cp

##### Spring semester
- 57182  Rethinking Media  8cp
- Select 8 credit points from the following options:  8cp
  - CBK90848  Elective  8cp

### Articulation with UTS courses

This course is part of an articulated program comprising the Master of Arts in Communication Management, Graduate Diploma in Communication Management (C06105) (see page 399), Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Integrated Communication (C06101) (see page 395), and the Graduate Diploma in Organisational Change and Communication (C06102) (see page 396).

### Professional recognition

Courses in the postgraduate program in Communication Management at UTS have been accredited with the Public Relations Institute of Australia (PRIA) for over 20 years. The Master of Arts in Communication Management is accredited with PRIA and graduates have an accelerated path to professional membership.

### Other information

Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
C04258v1 Master of Business in Finance Extended

Award(s): Master of Business in Finance (MBus)
CRICOS code: 077375K
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2

Overview
The Master of Business in Finance provides a comprehensive range of skills and expertise expected of leading practitioners in the banking and finance sectors. The finance program provides participants with the opportunity to acquire knowledge of finance theory and techniques for leading-edge professional practice purposes. The additional elective subject choices provide an opportunity to specialise more deeply in the finance discipline and to further enhance students' skills, professional practice, specialist knowledge and capabilities.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applicants with a relevant graduate certificate must have completed it with at least a credit average.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course is two years of full-time or four years of part-time study.

Course structure
The course comprises 96 credit points, made up of eleven core subjects (totaling 66 credit points) plus elective subjects (totaling 30 credit points).

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21878</td>
<td>Organisational Dialogue: Theory and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>25705</td>
<td>Financial Modelling and Forecasting</td>
<td>6cp</td>
</tr>
<tr>
<td>25741</td>
<td>Capital Markets</td>
<td>6cp</td>
</tr>
<tr>
<td>25721</td>
<td>Investment Management</td>
<td>6cp</td>
</tr>
<tr>
<td>22747</td>
<td>Accounting for Managerial Decisions</td>
<td>6cp</td>
</tr>
<tr>
<td>23706</td>
<td>Economics for Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25742</td>
<td>Financial Management</td>
<td>6cp</td>
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<tr>
<td>25765</td>
<td>Corporate Finance</td>
<td>6cp</td>
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<tr>
<td>25731</td>
<td>International Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>25743</td>
<td>Corporate Financial Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>25751</td>
<td>Financial Institution Management</td>
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</tr>
<tr>
<td>CBK90884 Electives (MBus Finance Extended)</td>
<td>30cp</td>
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<td>Total</td>
<td>96cp</td>
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</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Finance (C11027) (see page 425), the Graduate Diploma in Finance (C07021) (see page 404) and the Master of Business in Finance (C04048) (see page 307).

Professional recognition
This course covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered. Completion of the course meets the education requirements of membership at the level of Certified Finance and Treasury Professional (CFTP). It also meets the educational requirements at the level of Senior Associate (SA Fin), in conjunction with work experience, at the Financial Services Institute of Australasia (FINSSIA). The course has also been awarded postgraduate partnership status by CFA Institute (USA). The curriculum is closely tied to global professional practice and is well suited to students preparing to sit for CFA (Chartered Financial Analyst) program examinations.

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C04259v1 Master of Business in Management Extended

Award(s): Master of Business in Management (MBus)
CRICOS code: 077377G
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
The Master of Business in Management provides knowledge, skills and conceptual frameworks to enable students to identify and resolve complex issues that will characterise the working environments of senior managers in the future. Students acquire the conceptual and analytical skills necessary for successful management performance in a range of contexts, including the business, public and non-profit sectors, and a variety of professional settings.

The course provides students with knowledge and experiences to enhance their professional skills and understanding of the management of people, resources and organisational processes. An innovative, flexible structure provides students with maximum choice in selecting subjects and programs of study tailored to meet their personal and professional needs.

The additional elective subject choices provide an opportunity to specialise more deeply in the management discipline and to further enhance students' skills, professional practice, specialist knowledge and capabilities.

Course aims
The Master of Business in Management is designed to meet the needs of individuals, client organisations and professional bodies for management education.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.
The course aims to provide leading-edge conceptual and practical understandings of human resource management in complex and unfamiliar workplace situations in order to facilitate management decision making.

Career options
Career options include positions in change management and general management, human resources, and organisational training and development.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in two years of full-time or four years of part-time study.

Course structure
The course totals 96 credit points and consists of a combination of core and elective subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21779</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21720</td>
<td>Human Resource Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21741</td>
<td>Managing Operations</td>
<td>6cp</td>
</tr>
<tr>
<td>21800</td>
<td>Management and Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>21832</td>
<td>Managing for Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>21811</td>
<td>Global Strategic Management</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90888</td>
<td>Major/Electives (Business Management)</td>
<td>36cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>96cp</strong></td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Management (C11021) (see page 424), the Graduate Diploma in Management (C07018) (see page 403) and the Master of Business in Management.

Other information
Further information is available from UTS: Business on:

- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg

C04260V1 Master of Business in Human Resource Management Extended
Award(s): Master of Business in Human Resource Management (MBus)
CRICOS code: 07730B
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
The Master of Business in Human Resource Management provides students with the in-depth knowledge and skills necessary to contribute at a senior level to their organisation's human resources and industrial relations functions.

The course is designed primarily for individuals who are currently employed, or show the potential for employment, at senior policy-making levels in the fields of human resource management, industrial relations, occupational health and affirmative action.

The additional elective subject choices provide an opportunity to specialise more deeply in the human resource management discipline and to further enhance students' skills, professional practice, specialist knowledge and capabilities.
C04261v1 Master of Business in Marketing Extended
Award(s): Master of Business in Marketing (MBus)
CRICOS code: 077379F
Commonwealth-supported place?: No
Load credit points: 96
Course EFTSL: 2
Location: City campus

Overview
The Master of Business in Marketing provides the opportunity for students to extend their knowledge in the areas of communications, sales management, the development and introduction of new products, business-to-business marketing, technology and marketing, as well as the legal constraints on and the ethical implications of marketing in Australia.

The marketing program provides contemporary theoretical marketing knowledge and the practical skills required for superior performance in Australian and international markets. The additional elective subject choices provide an opportunity to specialise more deeply in the marketing discipline and to further enhance students' skills, professional practice, specialist knowledge and capabilities.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants with a relevant graduate certificate must have completed it with at least a credit average.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of eight subject exemptions, of which four core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course is two years of full-time or four years of part-time study.

Course structure
The course totals 96 credit points and consists of a combination of core subjects, specialised streams and elective subjects.

Course completion requirements
21878 Organisational Dialogue: Theory and Practice 6cp
24730 Marketing Strategy 6cp
24710 Buyer Behaviour 6cp
24734 Marketing Management 6cp
24720 Marketing Research 6cp
24790 Business Project: Marketing 6cp
CBK90635 Marketing streams 24cp
CBK90889 Electives (MBus Marketing Extended) 36cp
Total 96cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Marketing (C11039) (see page 428), the Graduate Diploma in Marketing (C07031) (see page 407) and the Master of Business in Marketing (C04067) (see page 308).

Professional recognition
Completion of this course meets the educational requirements for Professional Postgraduate Diploma in Marketing entry point to the Chartered Institute of Marketing (CIM).

Other information
Further information is available from UTS: Business on: telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C04262v1 Master of Arts in International Studies
Award(s): Master of Arts in International Studies (MAInternationalStudies)
CRICOS code: 043443F
Commonwealth-supported place?: No
Load credit points: 72
Course EFTSL: 1.5
Location: City campus

Note(s)
Students intending to complete the Master of Arts in International Studies are encouraged to enrol directly into this program rather than enrolling initially in the graduate diploma and transferring to this course. This assists students and UTS: International Studies with planning an appropriate sequence of subjects.

The in-country study component of this course has a higher subject fee in order to cover student tuition, airfares, visa processing costs and insurance. Refer to www.sau.uts.edu.au/fees/calculators.html for details.

Overview
The Master of Arts in International Studies is part of an articulated program of study in which students develop or enhance their knowledge of the language and culture of a country chosen from the range offered in the international studies program.

Students have the opportunity to spend a semester at a university in their country of study, or write a dissertation related to that country.

Course aims
The program aims to enable students to communicate competently in the language of their specialisation, learn about contemporary society in their chosen country of study, develop intercultural sensitivity, critically reflect on ethical issues in international research, and learn and apply a variety of interdisciplinary skills and knowledge to research contemporary issues and trends in international studies through a capstone in-country study experience.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

A minimum of two years' language study at an approved tertiary institution is recommended, but not required. Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Credit recognition
Students who have successfully completed the Graduate Diploma in International Studies (C06106) (see page 400) are eligible for credit recognition for completed subjects (48 credit points).

Course duration and attendance
The course is offered on a one-and-a-half-year, full-time or equivalent part-time basis.

Course structure
The course totals 72 credit points of study and focuses on developing or extending students’ experience of language and culture. There are three compulsory components, which involve at least two semesters of study of a language and culture other than English, a contemporary society subject relevant for their country major as well as the Research in International Studies subject. Students can focus on one of the following countries or majors: Argentina, Canada (Quebec), Chile, China, Colombia, France, Germany, Italy, Japan, Latino USA, Mexico, Spain or Switzerland.

Students may select subjects beyond the lists of elective subjects with the approval of the graduate adviser. Not all subjects are available each semester.

Full-time students undertake 24 credit points a semester. Part-time students should undertake 16 credit points a semester.

Overseas study
Students may spend a semester overseas at an institution of higher education in the country of their language and culture major. Students pay $9540 towards the in-country study component. The remaining costs of tuition at overseas universities and of travel between Sydney and the student’s place of study are paid by UTS. Visa fees are also paid by UTS and students are covered by the UTS Overseas Insurance Policy. Students must pay the costs of accommodation and other living expenses during the period of in-country study.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90893</td>
<td>Major choice</td>
<td>48cp</td>
</tr>
<tr>
<td>979508</td>
<td>Research in International Studies</td>
<td>8cp</td>
</tr>
<tr>
<td>CBK90900</td>
<td>Electives (International Studies)</td>
<td>16cp</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>72cp</td>
</tr>
</tbody>
</table>

Course program
The example programs below show subject choices for the German Language and Culture option. Students undertaking one of the other language options undertake a similar sequence of subjects.

The part-time program shows the three compulsory subjects (i.e. two language options undertake a similar sequence of subjects).

Autumn commencing, full time
Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Research in International Studies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 1</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>German Language and Culture 2</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Contemporary Germany</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>In-country Study: Germany</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Autumn commencing, part time
Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Research in International Studies</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>German Language and Culture 1</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>German Language and Culture 2</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>In-country Study: Germany</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Diploma in International Studies (C06106) (see page 400) and the Master of Arts in International Studies.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au www.internationalstudies.uts.edu.au

C06006v4 Graduate Diploma in Property Development
Award(s): Graduate Diploma in Property Development (GradDipProDev)
UAC code: 942101 (Autumn semester), 945101 (Spring semester)
CRICOS code: 06575D
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Property Development is designed for both property practitioners and graduates in other fields who wish to extend their qualifications and expertise in property development and management. Graduates have a commitment to professionalism in the property sector.

This course is for property professionals who want to upgrade their qualifications or expertise, or for those who wish to enter the property industry. Property development and planning students study a common first year, which develops an understanding of how to balance private and public interests in urban development.

Course aims
This course is focused on development and delivered with a practical focus. It provides a thorough and advanced grounding in all aspects of the property development process, markets and institutions, including the political, managerial, legal and physical systems which contribute to the effective management and development of property assets, property investment portfolios and development proposals. It is designed to provide valuers and other property practitioners with opportunities to enhance their qualifications and expertise, and provide professionals from other fields with an understanding of property development and investment issues and techniques.

Career options
Career options include positions in banking and government instrumentalities, finance, management and development, and property investment.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Admission is at the discretion of the course director. If applicants are not graduates from the UTS Graduate Certificate in Property and Planning (C11001) (see page 421), they must possess an advanced diploma in valuation or equivalent qualification. Applicants may also be required to provide proof of professional experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583
overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course duration is one year of full-time or two years of part-time study.

All subjects are offered in intensive blocks. The attendance pattern for each subject is generally two separate two-and-a-half-day blocks, usually held over a Thursday evening, Friday and Saturday.

Course structure

Students must achieve a total of 48 credit points, comprising 36 credit points of core subjects and 12 credit points of electives. With the approval of the director of program, students may substitute one subject with any other postgraduate property subject.

Course completion requirements

STM90002 Core subjects (Property and Planning) 24cp
STM90076 Core subjects (Property) 12cp
CBK90377 Property options (PG) 12cp
Total 48cp

Course program

The example programs below are for a student undertaking the course full time and commencing in either Autumn or Spring semesters.

Full time, Autumn commencing

Year 1

Autumn semester

15142 Introduction to Property and Planning 6cp
Select one of the following: 6cp
12535 Valuation Application 6cp
12222 Urban Design 6cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp

Spring semester

12518 Property Transactions 6cp
15143 Group Project A: Urban Renewal 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
17553 Construction Cost Planning 6cp
17704 Property Development Finance 6cp
17772 Commercial Retail Property Management 6cp
17774 Green Building Evaluation 6cp
12535 Valuation Application 6cp

Full time, Spring commencing

Year 1

Spring semester

15142 Introduction to Property and Planning 6cp
Select one of the following: 6cp
12535 Valuation Application 6cp
12222 Urban Design 6cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp

Year 2

Autumn semester

12518 Property Transactions 6cp
15143 Group Project A: Urban Renewal 6cp
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
171200 Conservation and Heritage 6cp
17518 Advanced Property Development 6cp
17551 Property Market and Risk Analysis 6cp
17703 Property Taxation 6cp
12535 Valuation Application 6cp

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Property and Planning (C11001) (see page 421), the Graduate Diploma in Property Development and the Master of Property Development (C04088) (see page 302).

Other information

Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C06009v7 Graduate Diploma in Business Administration

Award(s): Graduate Diploma in Business Administration (GradDipBusAdmin)
CRICOS code: 00102G
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview

The Graduate Diploma in Business Administration provides a basis for the development of a career in management for graduates who have not previously undertaken an administrative studies degree course.

Course aims

General management skills are developed to provide expertise in strategic thinking, critical analysis, developing and implementing business plans, decision-making under uncertainty, understanding organisational dynamics, effective communication and promoting change.

Career options

Career options include management-level positions in industry or government.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Students may be granted a maximum of five subject exemptions in the Graduate Diploma in Business Administration, of which two core subjects can be approved from prior undergraduate study.

Course duration and attendance

The course duration is one year of full-time or two years of part-time study.

Course structure

The course comprises seven of the core Master of Business Administration subjects, plus one elective, totalling 48 credit points of study.
Course completion requirements

23706 Economics for Management 6cp
22747 Accounting for Managerial Decisions 6cp
24734 Marketing Management 6cp
25742 Financial Management 6cp
21800 Management and Organisations 6cp
21844 Managing Work and People 6cp
21878 Organisational Dialogue: Theory and Practice 6cp
Select 6 credit points from the following options: 6cp
CBK00474 Elective 6cp

Total 48cp

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Business Administration (C11008) (see page 422), the Graduate Diploma in Business Administration, and the Master of Business Administration (C03018) (see page 303).

Other information

Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au / pg

C06017v6 Graduate Diploma in Event Management

Award(s): Graduate Diploma in Event Management (GradDipEM)
CRICOS code: 04112A
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus, although some subjects may be available at Kuring-gai campus.

Overview

The Graduate Diploma in Event Management is designed to develop high-level management skills and knowledge sufficient to allow students to manage or play a significant role in the management of large-scale events.
The course enhances students’ professional competence, personal development and ability to engage in critical thinking by offering a combination of core subjects associated with the areas of event creation, management, marketing and accounting.

Course aims

The aim of the course is to develop knowledge, understanding and professional management skills relevant to the organisation, planning, marketing and operation of various forms of events in both Australian and international contexts.

Career options

Career options include festival organiser, conference organiser/meeting planner, charity event coordinator, sport event manager, hotel/resort/cruise ship event coordinator, exhibition organiser, venue manager and event creative director.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
The equivalent qualification required is a bachelor's degree in any discipline or satisfactory completion of a relevant graduate certificate.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 6.0, or PTE: 58-64, or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Students may be granted a maximum of five subject exemptions in the Graduate Diploma in Event Management, of which two core subjects may be approved prior to undergraduate study.

Course duration and attendance

The course duration is one year of full-time or two years of part-time study.
The Event Management program is offered at City campus, although some subjects may be offered at Kuring-gai campus. Some subjects may be offered in intensive mode.

Course structure

The course comprises 48 credit points, consisting of eight core subjects.

Course completion requirements

27727 Event Creation Workshop 6cp
27765 Event Management 6cp
21751 Management Research Methods 6cp
22747 Accounting for Managerial Decisions 6cp
27726 Event Concepts and Contexts 6cp
27737 Event Risk Management 6cp
27717 Venue and Facility Management 6cp
27734 Marketing for the Experience Industries 6cp

Total 48cp

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Event Management (C11038) (see page 427), the Graduate Diploma in Event Management, and the Master of Management (C04239) (see page 357).

Other information

Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au / gsb

C06033v4 Graduate Diploma in Local Government Management

Award(s): Graduate Diploma in Local Government Management (GradDipLGM)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)

This course is not offered to international students.

Overview

Today’s local government manager must have a high level of professional expertise together with a broad range of managerial skills and a sound understanding of the special characteristics of local government. This course is tailored to the local government environment, allowing managers to meet their differing professional needs while keeping up-to-date with the latest issues.
The course offers the opportunity to build an education program that responds to individual needs as it allows students to develop a study plan that matches the requirements of their professional development. Subjects can be studied in the workplace, through intensive block release or, in some cases, at a university or college closer to home. The program can also be used as a stepping stone to a broader master’s degree or MBA.

Course aims

The course aims to provide students with knowledge, skills and competencies in the principles and practices of local government management, with particular reference to their own organisation. Through the course, students have access to a combination of both general and specialist study units via a range of flexible delivery modes. Students develop the learning skills that allow them to continue their own professional development through short courses or further academic study.
Career options
Career options include local government manager in councils.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Enrolment is also available to people who do not have a degree but who can demonstrate substantial relevant work experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who have completed relevant previous studies may apply to the course coordinator for credit recognition.

Course duration and attendance
This course is normally offered on a four-year, part-time basis, with students undertaking one subject a semester.

In some circumstances, students may complete two subjects a semester and therefore complete the course in two years.

Course structure
The course totals 48 credit points, made up of eight subjects.

Course completion requirements
STM90714 Core subjects 18cp
CBK90633 Options 30cp
Total 48cp

Course program
A typical program is shown below.

Select 30 credit points from the following options: 30cp
15602 Social Planning and Development 6cp
15603 Integrated Strategic Planning 6cp
15606 Vocational Competencies 1 6cp
15607 Vocational Competencies 2 6cp
15609 Local Environmental Management 6cp
15610 Local Government Leadership: Personal and Professional Skills 6cp
15618 New Perspectives in Local Government Leadership 6cp
15608 Corporate Management and Organisational Change 6cp
15611 Managing Local Enterprise 6cp
15604 Local Government Management Principles and Practice 1 6cp

Exit award
Students can exit this course after completing 24 credit points of specified subjects with a Graduate Certificate in Local Government Management (CI1053) (see page 433).

Other information
Further information is available from:
Gabrielle Watterson
Administration Officer
telephone +61 2 9514 1659
fax +61 2 9514 2274
email Gabrielle.Watterson@uts.edu.au
www.clg.uts.edu.au

C06037v4 Graduate Diploma in Journalism
Award(s): Graduate Diploma in Journalism (GradDipJournalism)
UAC code: 942501 (Autumn semester), 945501 (Spring semester)
CRICOS code: 03235lA
Commonwealth credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Journalism is part of an articulated program of study for people who want to start a journalism career and for experienced journalists wanting to broaden their skills and professional technological expertise and refresh the intellectual basis of their practice.

This is the only program of its kind in Sydney, where the Australian media is increasingly concentrating. The journalism staff at UTS has a record of excellence in professional practice reflected in media contacts. In addition, the course has close links with the Australian Centre for Independent Journalism, which provides a professional setting for student work.

Course aims
Graduates of the program:

• have strong research and reporting skills
• have a knowledge and critical understanding of the media
• are equipped with the necessary skills to enter professional practice in the media or continue with additional skills and intellectual depth
• strive to promote the important role of professional and ethical journalism in the service of the public, and
• have an understanding of the role of the media in local, regional, national and global contexts.

Career options
Career options include reporter or editor in local, corporate, national or international print or broadcast media organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 102-110; or CAE: 87-93

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students who successfully completed the graduate certificate in the articulated program are eligible for credit recognition for completed subjects.

Course duration and attendance
The course is one year of full-time or one-and-a-half years of part-time study.

Course structure
The course totals 48 credit points of study, made up of 24 credit points of core subjects and 24 credit points of electives.
Full-time students are advised to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90818</td>
<td>Core subjects (Journalism)</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90897</td>
<td>Elective subjects GD Journalism</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90899</td>
<td>Choices (Journalism PG)</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

**Course program**

Example programs are shown below.

**Autumn commencing, full time**

**Year 1**

- **Autumn semester**
  - 57011 Research and Reporting for Journalism 8cp
  - Select one of the following:
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
  - Select 8 credit points of electives 8cp

- **Spring semester**
  - 57151 Storytelling with Sound and Image 8cp
  - Select 16 credit points of electives 16cp

**Autumn commencing, part time**

**Year 1**

- **Autumn semester**
  - 57011 Research and Reporting for Journalism 8cp
  - Select one of the following:
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp

- **Spring semester**
  - 57151 Storytelling with Sound and Image 8cp
  - Select 8 credit points of electives 8cp

**Year 2**

- **Autumn semester**
  - Select 16 credit points of electives 16cp

**Spring commencing, full time**

**Year 1**

- **Spring semester**
  - 57011 Research and Reporting for Journalism 8cp
  - Select one of the following:
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
  - Select 8 credit points of electives 8cp

**Year 2**

- **Autumn semester**
  - 57151 Storytelling with Sound and Image 8cp
  - Select 16 credit points of electives 16cp

**Spring commencing, part time**

**Year 1**

- **Spring semester**
  - 57011 Research and Reporting for Journalism 8cp
  - Select one of the following:
    - 57012 Regulation of the Media 8cp
    - 57138 International and Comparative Journalism 8cp
  - Select 8 credit points of electives 8cp

**Year 2**

- **Autumn semester**
  - 57151 Storytelling with Sound and Image 8cp
  - Select 8 credit points of electives 8cp

**Spring semester**

Select 16 credit points of electives 16cp

**Articulation with UTS courses**

This course forms part of an articulated program comprising the Graduate Certificate in Journalism (C11058) (see page 435), the Graduate Diploma in Journalism and the Master of Arts in Journalism (CD4106) (see page 323).

**Other information**

Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C06041v6 Graduate Diploma in Creative Writing**

<table>
<thead>
<tr>
<th>Award(s)</th>
<th>Graduate Diploma in Creative Writing (GradDipCreativeWriting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UAC code</td>
<td>942513 (Autumn semester), 945513 (Spring semester)</td>
</tr>
<tr>
<td>CRICOS code</td>
<td>032361K</td>
</tr>
<tr>
<td>Commonwealth-supported place?</td>
<td>No</td>
</tr>
<tr>
<td>Load credit points:</td>
<td>48</td>
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<tr>
<td>Course EFTSL:</td>
<td>1</td>
</tr>
<tr>
<td>Location: City campus</td>
<td></td>
</tr>
</tbody>
</table>

**Overview**

The Graduate Diploma in Creative Writing is part of an articulated program designed to meet a range of needs for people who want to start a career in writing and for experienced writers wanting to further develop their theoretical knowledge and skills.

**Course aims**

Students develop:
- both general and specific skills in writing across a range of genres, studying one genre in depth or exploring the potential of a range of genres and media
- an ability to develop and critically revise their own work
- an understanding of the relationships of writing practice and publication across a range of contemporary cultural forms
- a critical knowledge of cultural and aesthetic debates, and
- an ability to think creatively and critically about, and contribute to, developments in cultural industries.

**Career options**

Career options include advertising, computing, freelance writing and editing, journalism, media research, publishing, scriptwriting, and editing in community organisations or government departments.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with WTE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73.

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Credit recognition
Students who successfully completed either of the graduate certificates in the articulated program are eligible for credit recognition for completed subjects.

Course duration and attendance
The course duration is one year of full-time or equivalent part-time study.

Course structure
The course totals 48 credit points, consisting of three core subjects and three electives. Students may select subjects beyond the list of elective subjects with the approval of the graduate adviser. Not all subjects are available each semester. Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
<table>
<thead>
<tr>
<th>Course program</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core subjects</td>
<td>24cp</td>
</tr>
<tr>
<td>Electives</td>
<td>24cp</td>
</tr>
<tr>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Example programs are given below.

Autumn commencing, full time
Year 1
Autumn semester
57041 Narrative Writing 8cp
57134 Theory and Creative Writing 8cp
Select 8 credit points of electives 8cp

Spring semester
57031 Non-fiction Writing 8cp
Select 16 credit points of electives 16cp

Autumn commencing, full time
Year 1
Spring semester
57041 Narrative Writing 8cp
57134 Theory and Creative Writing 8cp
Select 8 credit points of electives 8cp

Year 2
Autumn semester
57031 Non-fiction Writing 8cp
Select 16 credit points of electives 16cp

Spring commencing, part time
Year 1
Autumn semester
57041 Narrative Writing 8cp
57134 Theory and Creative Writing 8cp
Spring semester
57031 Non-fiction Writing 8cp
Select 8 credit points of electives 8cp

Year 2
Autumn semester
Select 16 credit points of electives 16cp

Spring commencing, part time
Year 1
Spring semester
57041 Narrative Writing 8cp
57134 Theory and Creative Writing 8cp
Year 2
Autumn semester
57031 Non-fiction Writing 8cp
Select 8 credit points of electives 8cp

Spring semester
Select 16 credit points of electives 16cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Screenwriting (C11066) (see page 436), the Graduate Certificate in Editing and Publishing (C11071) (see page 437), the Graduate Diploma in Creative Writing and the Master of Arts in Creative Writing (CD4109) (see page 324). To be eligible to articulate into the Master of Arts in Creative Writing (CD4109) (see page 324), students must complete at least two postgraduate writing subjects with a distinction grade or higher.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C06058v7 Graduate Diploma in Information Technology

Overview
This course provides a broad introduction to the fundamental aspects of information technology and is primarily designed for those who have studied little or no IT in their previous degree. Students gain the necessary knowledge and skills to equip them for a career in IT. As well as gaining a broad foundation, students are able to choose elective subjects from a wide range of options.

Career options
Career options include database manager, e-business developer, information systems manager or systems analyst.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

For this course an equivalent degree can be from any discipline (as applicants for this program may apply as a non-IT graduate or an IT graduate).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Applicants with a recognised bachelor’s degree in computing or information technology (or equivalent) may apply for credit recognition equivalent to the 24-credit-point Graduate Certificate in Information Technology (C11142) (see page 447).

Course duration and attendance
The course duration is one year of full-time or two years of part-time study.
Course structure
The course totals 48 credit points of study and consists of five core subjects and 18 credit points of electives selected from a defined list.

Course completion requirements
Select one of the following:
- STIN09695 Core subjects 24cp
- CBK90802 Choice 24cp
- CBK90803 Choice 18cp
- 32144 Technology Research Preparation 6cp
Total 48cp

Course program
The following three examples show typical full-time programs for non-IT graduates, IT graduates with credit recognition and IT graduates without credit recognition, commencing in Autumn semester. The selection of subjects for part-time students is dependent upon the commencing semester and the availability of evening subject offerings. Part-time students should contact the course coordinator for further information.

Note: Electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Non-IT graduates
Year 1
Autumn semester
- 32555 Fundamentals of Software Development 6cp
- 32524 LANS and Routing 6cp
- 32606 Database 6cp
- 32144 Technology Research Preparation 6cp
Spring semester
- 32557 Enabling Enterprise Information Systems 6cp
Select 18 credit points of electives 18cp

IT graduates with credit recognition
Year 1
Autumn semester
- 32144 Technology Research Preparation 6cp
Select 18 credit points of electives 18cp

IT graduates without credit recognition
Year 1
Autumn semester
- 32144 Technology Research Preparation 6cp
Select 18 credit points of electives 18cp
Spring semester
Select 24 credit points of electives 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Information Technology (C11142) (see page 447), the Graduate Diploma in Information Technology, the Master of Information Technology (C04157) (see page 331) and the Master of Information Technology (Extended) (C04218) (see page 340).

Professional recognition
Graduates are eligible for associate-level membership of the Australian Computer Society (ACS).

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C06060V6 Graduate Diploma in Information Technology Management
Award(s): Graduate Diploma in Information Technology Management (GradDiplmTechM)
UAC code: 942613 (Autumn semester), 945613 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course is not offered to international students.

Overview
This course focuses on the role of technology in the strategic leadership of organisations. It provides a well-balanced selection of subjects, drawn from advanced information technology and business domains, in an integrated program that is relevant to the current and future demands of the IT industry and business organisations.

IT professionals who have aspirations to senior IT roles and/or business leadership positions in organisations benefit from this course. Graduates are able to contribute constructively to the effective utilisation of information technology with respect to the strategic leadership of an organisation. IT managers who already have significant levels of experience are challenged by this course and gain new perspectives on the effective leadership of organisations in the digital era.

Course aims
The course aims to develop:
- the professional skills necessary for successfully undertaking strategic leadership roles in a variety of organisational contexts, and
- a conceptual and analytical understanding of an organisation’s needs in a dynamic and challenging global knowledge economy.

Career options
Graduates can be employed in the full range of organisations - private, public and community sector organisations. They can prepare to move from a senior IT management position into the CIO (chief information officer) role.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous bachelor’s qualifications must be in information technology or commerce, and applicants must have a minimum of five years’ professional work experience in the IT industry plus some supervisory experience. Applicants who have successfully completed the Graduate Certificate in Information Technology Management (C11138) (see page 446) must have passes in all subjects and a credit average over the entire course.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP, C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a two-year, part-time basis.

Course structure
Students complete 48 credit points of study, consisting of five core subjects and three electives.

Course completion requirements
- 32553 Leadership and People Management 6cp
- 32005 Strategic Leadership for Innovation 6cp
- 32007 Strategic Information Technology Investment 6cp
- CBK90151 Electives (IT Management) 18cp
- 32561 Managing Organisational Change 6cp
- 32562 Strategic Business Management 6cp
Total 48cp
**Course program**

A typical part-time program for students commencing in Autumn semester is shown below.

Note: Subjects listed as electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources. Students can apply to the course coordinator to enrol in an alternative subject as an elective.

**Year 1**

**Autumn semester**

- 32007 Strategic Information Technology Investment 6cp
- 32553 Leadership and People Management 6cp

**Spring semester**

- 32005 Strategic Leadership for Innovation 6cp

**Year 2**

**Autumn semester**

- 32561 Managing Organisational Change 6cp
- Select 6 credit points of electives 6cp

**Spring semester**

- 32562 Strategic Business Management 6cp
- Select 6 credit points of electives 6cp

**Articulation with UTS courses**

This course is part of an articulated program comprising the Graduate Certificate in Information Technology Management (C11138) (see page 446), the Graduate Diploma in Information Technology Management and the Master of Business in Information Technology Management (C04161) (see page 335).

**Other information**

Further information is available from:

- Building 10 Student Centre
- telephone 1300 ask UTS (1300 275 887)
- Ask UTS www.ask.uts.edu.au

**C06096v3 Graduate Diploma in Adult Literacy and Numeracy Teaching**

**Award(s):** Graduate Diploma in Adult Literacy and Numeracy Teaching (GradDipAdLitNumTeach)

**UAC code:** 942248 [CSP] (Autumn semester), 942249 [PDFP] (Autumn semester)

**CRICOS code:** 05839D

**Commonwealth-supported place?:** Yes

**Load credit points:** 48

**Course EFTSL:** 1

**Location:** City campus

**Overview**

UTS is a leading provider of postgraduate language and literacy courses with the longest tradition of adult basic education (ABE) teacher training of any university in NSW.

This course is for people who wish to gain an initial specialist qualification as an adult basic education practitioner. It provides graduates with a widely recognised specialist teaching qualification that enables them to work in the field of adult literacy and numeracy education in both the public and private sectors and registered training organisations. The course includes two practicums and a range of subjects that integrate relevant theoretical perspectives on adult basic education with practical teaching and learning applications.

**Course aims**

The course aims to provide students with:

- a sound understanding of practices and policies in teaching literacy and numeracy to adults
- up-to-date teaching and learning strategies
- skills in designing, implementing and evaluating a variety of learning activities and curricula, and theoretical approaches to literacy and numeracy education.

**Career options**

Career options include adult basic education practitioner in community colleges, corrective services, AMES, TAFE and public and private adult education institutions that design and deliver programs for adults to learn and build on basic literacy and numeracy skills; provide learner support for students in VET programs; and design and deliver workplace literacy and numeracy programs.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP-B; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

**International students**

**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**

Graduates of the Graduate Certificate in Adult Numeracy Teaching (C11220) (see page 461) are eligible for 24 credit points of credit recognition.

**Course duration and attendance**

The course can be completed in one year of full-time or two years of part-time study.

**Course structure**

Students must complete 48 credit points comprising eight core subjects.

**Course completion requirements**

| STM90549 Core subjects (Adult Numeracy Teaching) | 24cp |
| STM90554 Core subjects (Adult Literacy and Numeracy Teaching) | 24cp |
| **Total 48cp** |

**Course program**

The full-time and part-time programs are shown below.

**Full time**

**Year 1**

**Autumn semester**

- 013122 Understanding Adult Education and Training 6cp
- 010070 Professional Practice 1 Language Literacy and Numeracy 6cp
- 013141 Language Programming and Assessment 6cp
- 013831 Maths for Numeracy Teachers 6cp

**Spring semester**

- 010071 Professional Practice 2 Language Literacy and Numeracy 6cp
- 013117 Theory and Practice of Literacy 6cp
- 013971 Teaching and Learning Numeracy 6cp
- 013096 Grammar and the Construction of Meaning 6cp

**Part time**

**Year 1**

**Autumn semester**

- 010070 Professional Practice 1 Language Literacy and Numeracy 6cp
- 013831 Maths for Numeracy Teachers 6cp

**Spring semester**

- 013971 Teaching and Learning Numeracy 6cp
- 010071 Professional Practice 2 Language Literacy and Numeracy 6cp

**Year 2**

**Autumn semester**

- 013141 Language Programming and Assessment 6cp
- 013122 Understanding Adult Education and Training 6cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Adult Numeracy Teaching (C11220) (see page 461) and the Graduate Diploma in Adult Literacy and Numeracy Teaching.

Other information
Further information is available from UTS: Education at: www.education.uts.edu.au
Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (toll free, within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx

C06097v1 Graduate Diploma in Mathematics and Statistics for Business and Finance
Award(s): Graduate Diploma in Mathematics and Statistics for Business and Finance [GradDipMathStat]
UAC code: 942741 (Autumn semester), 945741 (Spring semester)
CRICOS code: 065346C
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
Holders of the UTS Bachelor of Science in Mathematics or Bachelor of Science in Statistics degree or equivalent are not eligible for admission to this course. Instead, they should consider the Graduate Certificate in Mathematics (C11210) (see page 457).

Overview
A sound knowledge of mathematical and statistical methods is in ever growing demand in various government organisations, ranging from defence to education, and in such diverse fields as finance and public health, construction industry and agriculture, manufacturing and transportation. Despite the demonstrated and continuing demand for specialists trained in mathematics and statistics, most university graduates do not acquire the required knowledge in their bachelor’s degrees.

This course is designed for applicants who need more mathematics and/or statistics in their everyday work or who wish to broaden their career choices.

Course aims
This course aims to provide a solid mathematical and statistical background by means of a flexible study program that can be tailored to suit university graduates who need this knowledge in their work or plan to pursue further studies.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants are expected to have knowledge in mathematics comparable with the following UTS Mathematical Sciences foundation stream subjects:
• 35101 Introduction to Linear Dynamical Systems
• 35102 Introduction to Analysis and Multivariable Calculus
• 35151 Introduction to Statistics.

Applicants who do not satisfy this requirement should instead consider enrolment in the Graduate Certificate in Mathematics (C11210) (see page 457).

C06097v1 Graduate Diploma in Mathematics and Statistics for Business and Finance
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students can apply for exemption only from core subjects.

Course duration and attendance
The duration of the course depends on the choice of subjects and their availability. As a guide, minimum full-time attendance is one year of study and part-time attendance is two years of study. Applicants should be aware that subjects may require attendance at daytime classes. The current timetable is available at: http://timetable.uts.edu.au

Course structure
Students are required to complete 48 credit points, comprising three core subjects and five electives (options). Elective subjects can be chosen from the list of options below but are not limited to it. Any elective which is not in the list of options below must be approved by the course director, postgraduate programs.

Many subjects offered by the Department of Mathematical Science have prerequisites. It is students’ responsibility to check that they have the required knowledge specified by these prerequisites. Students are strongly advised not to enrol in any subject if they do not have knowledge equivalent to the subject’s prerequisites.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35333</td>
<td>Regression Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>35363</td>
<td>Stochastic Models</td>
<td>6cp</td>
</tr>
<tr>
<td>35241</td>
<td>Optimisation in Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35100</td>
<td>Introduction to Sample Surveys</td>
<td>6cp</td>
</tr>
<tr>
<td>35111</td>
<td>Applications of Discrete Mathematics</td>
<td>6cp</td>
</tr>
<tr>
<td>35140</td>
<td>Introduction to Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35212</td>
<td>Computational Linear Algebra</td>
<td>6cp</td>
</tr>
<tr>
<td>35231</td>
<td>Differential Equations</td>
<td>6cp</td>
</tr>
<tr>
<td>35232</td>
<td>Advanced Calculus</td>
<td>6cp</td>
</tr>
<tr>
<td>35252</td>
<td>Mathematical Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>35255</td>
<td>Forensic Statistics</td>
<td>6cp</td>
</tr>
<tr>
<td>35322</td>
<td>Advanced Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>35335</td>
<td>Mathematical Methods</td>
<td>6cp</td>
</tr>
<tr>
<td>35340</td>
<td>Quantitative Management Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>35342</td>
<td>Nonlinear Methods in Quantitative Management</td>
<td>6cp</td>
</tr>
<tr>
<td>35344</td>
<td>Network and Combinatorial Optimisation</td>
<td>6cp</td>
</tr>
<tr>
<td>35355</td>
<td>Quality Control</td>
<td>6cp</td>
</tr>
<tr>
<td>35356</td>
<td>Design and Analysis of Experiments</td>
<td>6cp</td>
</tr>
<tr>
<td>35361</td>
<td>Stochastic Processes</td>
<td>6cp</td>
</tr>
<tr>
<td>35383</td>
<td>High Performance Computing</td>
<td>6cp</td>
</tr>
<tr>
<td>35391</td>
<td>Seminar (Mathematics)</td>
<td>6cp</td>
</tr>
<tr>
<td>35393</td>
<td>Seminar (Statistics)</td>
<td>6cp</td>
</tr>
<tr>
<td>Total</td>
<td>48cp</td>
<td></td>
</tr>
</tbody>
</table>
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Course aims**

This course provides graduates with an understanding of the principles of the registered trade mark system, the protection of unregistered marks and related forms of protection against misleading or unfair trading conduct in Australia. In addition, graduates understand the content and implication of a patent specification, enabling them to advise upon possible questions of infringement, validity and compliance.

**Career options**

Depending on the subjects taken, graduates may seek registration as a trade mark attorney and/or patent attorney in Australia. Arts administrators or media professionals may enhance career options through building expertise in the commercialisation or management of intellectual property assets. Other career options include: patent and trade marks attorney, IP lawyer, IP portfolio manager, policy maker and government regulator.

This course enables overseas registered attorneys to undertake the necessary subjects that the Professional Standards Board requires for Australian registration.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications can be in any discipline. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**

UTS may grant successful applicants advanced standing or exemption from one or more subjects but the Professional Standards Board for Patent and Trade Marks Attorneys (PSB) has no authority to recognise, for the purpose of registration as a Patent Attorney or Trade Marks Attorney, such exemptions. Students intending to seek registration need to seek exemption from the PSB. Further information is available from:

The Secretary

Professional Standards Board for Patent and Trade Marks Attorneys

PO Box 200

Woden ACT 2606

telephone +61 2 6283 2345

fax +61 2 6283 1048

email mail.psb@ipaustralia.gov.au

www.psb.gov.au

Exemptions are generally not granted for subjects not primarily directed to Australian law.

**Course duration and attendance**

The course can be completed in one year of full-time or one-and-a-half years of part-time study. Students commencing in Spring semester require an additional semester to complete the course.

Most subjects within this course can be studied by distance online and require no on-campus attendance. All lectures, tutorials, course materials and assessments are distributed by a combination of web-based technology and electronic media. Students conduct all communication with the lecturer by electronic means. A number of subjects are concurrently offered in traditional face-to-face, on-campus format.

**Course structure**

The course requires completion of 36 credit points of subjects. Subjects are timetabled annually, but not all subjects are offered every semester. The current timetable can be found at:

http://timetable.uts.edu.au
Course completion requirements

CBK90713 Choice 36cp
Total 36cp

Articulation with UTS courses
Subjects undertaken within the Graduate Certificate in Trade Mark Law and Practice (C11130) (see page 445) or Graduate Certificate in Intellectual Property (C11229) (see page 466) are recognised within the Graduate Diploma in Intellectual Property (C06099) (see page 394). Students enrolled in either graduate certificate may apply to internally transfer to the graduate diploma program. Candidates are not awarded the graduate certificate but subjects undertaken are applied towards the graduate diploma program.

Professional recognition
Subject to final board approval, where applicants have a requisite tertiary qualification as stipulated by the Professional Standards Board for Patent and Trade Marks Attorneys, this course satisfies the educational requirements necessary for registration as a Registered Trade Marks Attorney in Australia.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C06100v1 Graduate Diploma in Pharmaceutical Sciences
Award(s): Graduate Diploma in Pharmaceutical Sciences (GradDipPharmSc)
CRICOS code: 07556E
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1

Notes
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.

Overview
Transfer is for students enrolled in the Master of Pharmacy (C04252) (see page 376).

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>96001</td>
<td>Introduction to Pharmacy</td>
<td>6cp</td>
</tr>
<tr>
<td>96002</td>
<td>Concepts in Pharmaceutical Sciences</td>
<td>6cp</td>
</tr>
<tr>
<td>96003</td>
<td>Pharmaceutics</td>
<td>6cp</td>
</tr>
<tr>
<td>96004</td>
<td>Professional Services 1</td>
<td>6cp</td>
</tr>
<tr>
<td>96005</td>
<td>Professional Services 2</td>
<td>6cp</td>
</tr>
<tr>
<td>96006</td>
<td>Integrated Therapeutics 1</td>
<td>6cp</td>
</tr>
<tr>
<td>96007</td>
<td>Drug Disposition</td>
<td>6cp</td>
</tr>
<tr>
<td>96008</td>
<td>Evidence Based Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 48cp

Course program
The course program is shown below.

Year 1

Autumn semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>96001</td>
<td>Introduction to Pharmacy</td>
<td>6cp</td>
</tr>
<tr>
<td>96002</td>
<td>Concepts in Pharmaceutical Sciences</td>
<td>6cp</td>
</tr>
<tr>
<td>96003</td>
<td>Pharmaceutics</td>
<td>6cp</td>
</tr>
<tr>
<td>96004</td>
<td>Professional Services 1</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Spring semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>96005</td>
<td>Professional Services 2</td>
<td>6cp</td>
</tr>
<tr>
<td>96006</td>
<td>Integrated Therapeutics 1</td>
<td>6cp</td>
</tr>
<tr>
<td>96007</td>
<td>Drug Disposition</td>
<td>6cp</td>
</tr>
<tr>
<td>96008</td>
<td>Evidence Based Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 48cp

Exit award
This in an exit-only course for students enrolled in the Master of Pharmacy (C04252) (see page 376). Direct entry is not available.

Other information
For further information, contact UTS: Pharmacy:
email pharmacy@uts.edu.au
www.pharmacy.uts.edu.au

C06101v1 Graduate Diploma in Integrated Communication
Award(s): Graduate Diploma in Integrated Communication (GradDipIntegratedComm)
UAC code: 942537 (Autumn semester), 945537 (Spring semester)
CRICOS code: 074718E
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
In the Graduate Diploma in Integrated Communication, students develop specialised skills in integrated communication applicable to the private, not-for-profit and public sectors. Students enhance their knowledge of advertising and media relations and explore the relationship between public relations and marketing in integrated communication practice.

This course is suitable for either current practitioners in this field or for those wishing to specialise in this area of practice. Academic staff involved in the course have substantial industry experience and have undertaken research in the field.

Course aims
Graduates of this course have:
• advanced understanding of communication and its management
• the ability to synthesise communication theory and practice
• the ability to analyse, design, cost and evaluate an integrated communication strategy
• a sensitivity to ethical and legal issues related to communication
• a capacity to reflect on the roles and responsibilities of communicators
• the capacity to apply perspectives that are intercultural and global, and
• a sensitivity to issues of exclusion, equity and justice.

A full list of the graduate attributes of the course is available from UTS: Communication.

Career options
Career options include roles in public relations for the corporate sector, as well as those related to integrated marketing communication, corporate communication, fundraising, international communication, media liaison and public affairs.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying...
on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**
Students who have graduated with a UTS Bachelor of Arts in Communication (Public Communication) (C10248) (see page 256) may be granted up to one third of the postgraduate course in credit recognition. Other relevant qualifications are considered on a case-by-case basis.

**Course duration and attendance**
The course is offered on a one-year, full-time or equivalent part-time basis.

**Course structure**
This course totals 48 credit points of study consisting of three core foundation subjects (24 credit points) and three core subjects in the Integrated Communication specialisation (24 credit points). Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

**Course completion requirements**
- STM90751 Core foundation subjects 24cp
- STM90750 Integrated Communication 24cp
- Total 48cp

**Course program**
Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

### Autumn commencing, full time

**Year 1**
- Autumn semester
  - 57996 Marketing and Corporate Communication 8cp
  - 57023 Communicating with Publics 8cp
  - 57132 Media Relations 8cp
- Spring semester
  - 57131 Inventive Media Advertising 8cp
  - 57025 Intercultural and International Communication 8cp
  - 57022 Foundations of Communication 8cp

### Spring commencing, full time

**Year 1**
- Spring semester
  - 57131 Inventive Media Advertising 8cp
  - 57025 Intercultural and International Communication 8cp
  - 57023 Communicating with Publics 8cp

**Year 2**
- Autumn semester
  - 57022 Foundations of Communication 8cp
  - 57996 Marketing and Corporate Communication 8cp
  - 57132 Media Relations 8cp

### Autumn commencing, part time

**Year 1**
- Autumn semester
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp
- Spring semester
  - 57131 Inventive Media Advertising 8cp

**Year 2**
- Autumn semester
  - 57132 Media Relations 8cp
  - 57996 Marketing and Corporate Communication 8cp
- Spring semester
  - 57025 Intercultural and International Communication 8cp

### Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Diploma in Integrated Communication, Graduate Diploma in Communication Management (C06105) (see page 399), Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Organisational Change and Communication (C06102) (see page 396) and the Master of Arts in Communication Management (C04254) (see page 377).

### Professional recognition
Courses in the postgraduate program in Communication Management at UTS have been accredited with the Public Relations Institute of Australia (PRIA) for over 20 years. UTS will apply for this new graduate diploma to be accredited with the institute so that graduates have an accelerated path to professional membership of the PRIA.

### Other information
Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C06102v1 Graduate Diploma in Organisational Change and Communication**

**Award(s):** Graduate Diploma in Organisational Change and Communication (GradDipOrgChangeComm)

**UAC code:** 942540 (Autumn semester), 945540 (Spring semester)

**CRICOS code:** 074719D

**Commonwealth-supported place?:** No

**Load credit points:** 48

**Course EFTSL:** 1

**Location:** City campus

### Overview
The Graduate Diploma in Organisational Change and Communication develops students' capacities for managing internal communication as organisations initiate and adapt to changes in their environments. Students learn about change communication management, communicating with internal publics such as employees or members, and learning in organisations. The course is suitable for either current practitioners in this area or for those wishing to specialise in this field of practice. Academic staff involved in the course have substantial industry experience and have undertaken research in the field.

### Course aims
Graduates of this course have:
- advanced understanding of communication and its management
- the ability to synthesise communication theory and practice
- the ability to analyse, design, cost and evaluate a communication strategy
- a sensitivity to ethical and legal issues related to communication
- a capacity to reflect on the roles and responsibilities of communicators
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Career options

Career options include roles in communication management, particularly change communication and internal communication. Other roles include public relations managers, community relations, corporate communication and international communication.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Students who have graduated with a UTS Bachelor of Arts in Communication (Public Communication) (C10248) (see page 256) may be granted up to one third of the postgraduate course in credit recognition. Other relevant qualifications are considered on a case-by-case basis.

Course duration and attendance

The course is offered on a one-year, full-time or equivalent part-time basis.

Course structure

This course totals 48 credit points of study consisting of three core foundation subjects (24 credit points) and three core subjects in the Organisational Change and Communication specialisation (24 credit points).

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90751</td>
<td>Core foundation subjects</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90749</td>
<td>Organisational Change and Communication</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Course program

Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

Autumn commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Managing Organisational Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Communicating with Publics</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Organisational Change and Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Learning in Organisations</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Learning in Organisations</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Intercultural and International Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Managing Organisational Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Organisational Change and Communication</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Organisational Change and Communication</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td>Foundations of Communication</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Managing Organisational Communication</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses

This course is part of an articulated program comprised of the Graduate Diploma in Organisational Change and Communication, Graduate Diploma in Communication Management (C06105) (see page 399), Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Integrated Communication (C06101) (see page 395) and the Master of Arts in Communication Management (C04254) (see page 377).

Professional recognition

Courses in the postgraduate program in Communication Management at UTS have been accredited with the Public Relations Institute of Australia (PRIA) for over 20 years. UTS will apply for this new graduate diploma to be accredited with the institute so that graduates have an accelerated path to professional membership of the PRIA.

Other information

Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Course duration and attendance
The course is offered on a one-year, full-time or equivalent part-time basis.

Course structure
This course totals 48 credit points of study consisting of three core foundation subjects (24 credit points) and three core subjects in the Public Relations specialisation (24 credit points). Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
- STM90751 Core foundation subjects 24cp
- STM90748 Public Relations 24cp
- Total 48cp

Course program
Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

Autumn commencing, full time

Year 1
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp
  - 57132 Media Relations 8cp

Year 2
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57132 Media Relations 8cp
  - 57024 Managing Public Communication Strategies 8cp

Spring commencing, part time

Year 1
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp

Spring semester
- 57026 Strategic Communication and Negotiation 8cp

Year 2
- **Autumn semester**
  - 57024 Managing Public Communication Strategies 8cp
  - 57132 Media Relations 8cp

Spring semester
- 57025 Intercultural and International Communication 8cp

Spring commencing, part time

Year 1
- **Spring semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp

Year 2
- **Spring semester**
  - 57026 Strategic Communication and Negotiation 8cp

Course structure
This course totals 48 credit points of study consisting of three core foundation subjects (24 credit points) and three core subjects in the Public Relations specialisation (24 credit points). Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
- STM90751 Core foundation subjects 24cp
- STM90748 Public Relations 24cp
- Total 48cp

Course program
Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

Autumn commencing, full time

Year 1
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp
  - 57132 Media Relations 8cp

Year 2
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57132 Media Relations 8cp
  - 57024 Managing Public Communication Strategies 8cp

Spring commencing, part time

Year 1
- **Autumn semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp

Spring semester
- 57026 Strategic Communication and Negotiation 8cp

Year 2
- **Autumn semester**
  - 57024 Managing Public Communication Strategies 8cp
  - 57132 Media Relations 8cp

Spring semester
- 57025 Intercultural and International Communication 8cp

Spring commencing, part time

Year 1
- **Spring semester**
  - 57022 Foundations of Communication 8cp
  - 57023 Communicating with Publics 8cp

Year 2
- **Spring semester**
  - 57026 Strategic Communication and Negotiation 8cp
  - 57025 Intercultural and International Communication 8cp
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Applicants who have completed a bachelor's, graduate diploma or master's in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

### International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

### Credit recognition
Students who have completed the Bachelor of Arts in Communication (Public Communication) (C10248) (see page 256) may be granted up to one third of the postgraduate course in credit recognition. Other relevant qualifications are considered on a case-by-case basis.

### Course duration and attendance
The course is offered on a one-year, full-time or equivalent part-time basis.

### Course structure
This course totals 48 credit points of study consisting of three core foundation subjects (24 credit points) and three other communication management subjects (24 credit points). Two of the communication management subjects are compulsory and one is an elective.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

### Course completion requirements
- STM90751 Core foundation subjects 24cp
- STM90768 Communication Management 24cp
- Total 48cp

### Course program
Typical course programs are shown below for both full-time and part-time students, commencing in both Autumn and Spring semesters.

#### Autumn commencing, full time

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57022</td>
<td>Foundations of Communication 8cp</td>
</tr>
<tr>
<td>57023</td>
<td>Communicating with Publics 8cp</td>
</tr>
<tr>
<td>57035</td>
<td>Organisational Change and Communication 8cp</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57024</td>
<td>Managing Public Communication Strategies 8cp</td>
</tr>
<tr>
<td>57035</td>
<td>Organisational Change and Communication 8cp</td>
</tr>
</tbody>
</table>

#### Autumn commencing, part time

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57022</td>
<td>Foundations of Communication 8cp</td>
</tr>
<tr>
<td>57023</td>
<td>Communicating with Publics 8cp</td>
</tr>
<tr>
<td>57025</td>
<td>Intercultural and International Communication 8cp</td>
</tr>
<tr>
<td>57024</td>
<td>Managing Public Communication Strategies 8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points from the following options: 8cp

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Autumn semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>57024</td>
<td>Managing Public Communication Strategies 8cp</td>
</tr>
<tr>
<td>57035</td>
<td>Organisational Change and Communication 8cp</td>
</tr>
</tbody>
</table>

### Year 1

#### Autumn semester

- **Foundations of Communication** (57022) 8cp
- **Communicating with Publics** (57023) 8cp
- **Organisational Change and Communication** (57035) 8cp

#### Spring semester

- **Intercultural and International Communication** (57025) 8cp
- **Managing Public Communication Strategies** (57024) 8cp

Select 8 credit points from the following options: 8cp

- **Electives** (CBK90847) 8cp
International studies

This course is part of an articulated program comprising the Graduate Diploma in Communication Management, Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Integrated Communication (C06101) (see page 395), Graduate Diploma in Organisational Change and Communication (C06102) (see page 396) and the Master of Arts in Communication Management (C06254) (see page 377).

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Diploma in Communication Management, Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Integrated Communication (C06101) (see page 395), Graduate Diploma in Organisational Change and Communication (C06102) (see page 396) and the Master of Arts in Communication Management (C06254) (see page 377).

Professional recognition

Courses in the postgraduate program in Communication Management at UTS have been accredited with the Public Relations Institute of Australia (PRIA) for over 20 years. The Graduate Diploma in Communication Management is accredited with PRIA and graduates have an accelerated path to professional membership.

Other information

Further information is available from the UTS Student Centre on:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C06106V1 Graduate Diploma in International Studies

Award(s): Graduate Diploma in International Studies (GradDiplIntStudies)
UAC code: 942528 (Autumn semester)
CRICOS code: 02494G
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)

Students intending to complete the Master of Arts in International Studies (C04262) (see page 384) are encouraged to enrol directly into it, rather than enrolling initially in the graduate diploma and transferring to the master’s. This assists students and UTS: International Studies with planning an appropriate sequence of subjects.

Overview

The Graduate Diploma in International Studies is part of an articulated program of study in which students develop or enhance their knowledge of the language and culture of a country chosen from the range offered in the international studies program.

The program provides opportunities for students from any disciplinary background to study a language and culture other than English and thus add an international dimension to their qualification.

Course aims

The program aims to enable students to communicate competently in the language of their specialisation, learn about contemporary society in their chosen country of study, develop intercultural sensitivity, critically reflect on ethical issues in international research, and learn a variety of interdisciplinary skills and knowledge to research contemporary issues and trends in international studies.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

A minimum of two years’ language study at an approved tertiary institution is recommended, but not required. Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course is offered on a one-year, full-time or equivalent part-time basis.

Course structure

The course totals 48 credit points. There are three compulsory components, which involve at least two semesters’ study of a language and culture other than English and the International Studies Research Seminar subject. Students can focus on one of the following countries or majors: Argentina, Canada (Quebec), Chile, China, Colomba, France, Germany, Italy, Japan, Latino USA, Mexico, Spain or Switzerland.

Students may select subjects beyond the lists of elective subjects with the approval of the graduate adviser. Not all subjects are available each semester.

Full-time students undertake 24 credit points a semester. Part-time students should undertake 16 credit points a semester.

Course completion requirements

CBK90891 Language, Culture and Society choice 24cp
979508 Research in International Studies 8cp
CBK90900 Electives (International Studies) 16cp
Total 48cp

Course program

The example programs below show subject choices for the German Language and Culture option. Students undertaking one of the other language options undertake a similar sequence of subjects.

The part-time program shows the three compulsory subjects (i.e. two language options undertake a similar sequence of subjects. Each semester.

The course is part of an articulated program comprising the Graduate Diploma in Communication Management, Graduate Diploma in Public Relations (C06103) (see page 398), Graduate Diploma in Integrated Communication (C06101) (see page 395), Graduate Diploma in Organisational Change and Communication (C06102) (see page 396) and the Master of Arts in Communication Management (C06254) (see page 377).
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

**Autumn commencing, full time**

**Year 1**

**Autumn semester**
- 97961 German Language and Culture 1 8cp
- 979508 Research in International Studies 8cp
- Select 8 credit points of electives 8cp

**Spring semester**
- 97961 German Language and Culture 2 8cp
- 979514 Contemporary Germany 8cp
- Select 8 credit points of electives 8cp

**Year 2**

**Autumn semester**
- 97961 German Language and Culture 3 8cp

**Spring semester**
- 979514 Contemporary Germany 8cp
- 97964 German Language and Culture 4 8cp

**Articulation with UTS courses**

This course is part of an articulated program comprising the Graduate Diploma in International Studies and the Master of Arts in International Studies (C04262) (see page 384). Students who successfully complete this course and who are admitted to the master’s course are eligible for credit recognition for completed subjects (48 credit points).

For students planning to articulate to the Master of Arts in International Studies it is highly recommended that they select the contemporary society elective relevant to the country major. If these students want to proceed to a period of in-country study they must advise UTS: International Studies at least one semester prior to wanting to go overseas.

**Other information**

Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.internationalstudies.uts.edu.au

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**C07002v6 Graduate Diploma in Planning**

**Award(s):** Graduate Diploma in Planning (GradDipPlan)

**Commonwealth-supported place?:** No

**Load credit points:** 48

**Course EFTSL:** 1

**Location:** City campus

**Note(s):**

This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty. Transfer is only for students enrolled in the Master of Planning (C04007) (see page 301).

**Overview**

This course provides students with a thorough understanding of the economic, sociological, environmental and other theoretical and practical knowledge underpinning the governance in urban management and urban development. It has a strong focus on sustainable urban development.

With an engaged and practical approach, this course focuses on urban planning and development processes, sustainability and creative development control and enhances knowledge and skills in urban management, property development, urban design and environmental policy. Property development and planning students study a common first year, which develops a mutual understanding of how to balance private and public interests in urban development.

**Course aims**

Graduates of this course understand the nature and methods of planning and urban management and the interdependency of various urban policy fields, agencies and institutions that enable sound urban outcomes. They can responsibly participate in planning debates, apply sound and appropriate urban design principles, communicate at a superior level and constructively reflect on planning methods and practice.

Graduates also recognise and develop ethical, just and professional methodological approaches and practices.

**Career options**

Skills in planning and environmental law, development control, strategic planning, community planning and infrastructure management open up careers in government departments and agencies, local government, major development companies and private consulting firms.

**Course duration and attendance**

The course can be completed on a one-year, full-time basis.

**Course structure**

The course requires the completion of eight 6-credit-point subjects, totalling 48 credit points of study.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90502</td>
<td>Core subjects (Property and Planning)</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90503</td>
<td>Level 2 core subjects (Planning)</td>
<td>24cp</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>48cp</strong></td>
</tr>
</tbody>
</table>

**Course program**

An example program is below.

**Full time**

**Year 1**

**Autumn semester**
- 15142 Introduction to Property and Planning 6cp
- 15146 Sustainable Urban Development 6cp
- 15222 Urban Design 6cp
- 15241 Urban Economics and Finance 6cp

**Spring semester**
- 17700 Planning and Environmental Law 6cp
- 15143 Group Project A: Urban Renewal 6cp
- 15144 Group Project B: Greenfields Development 6cp
- 15145 Development Negotiation 6cp

**Articulation with UTS courses**

This exit-only course is part of an articulated program comprising the Graduate Certificate in Property and Planning (C11001) (see page 421), the Graduate Diploma in Planning and the Master of Planning (C04007) (see page 301).

**Exit award**

This exit-only course enables students enrolled in the master’s course to exit after completing 48 credit points of study and gain a graduate diploma qualification.

**Other information**

Further information is available from the Building 6 Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au
C07004v6 Graduate Diploma in Project Management

Award(s): Graduate Diploma in Project Management (GradDipPM)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus; Lille, France

Note(s)
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.
Transfer is for students enrolled in the Master of Project Management (C04006) (see page 300).

Overview
With close industry contact, the course is delivered through block workshops designed to emulate project environments, giving students the opportunity to directly develop their ability to manage real projects. The program is rigorous, and is globally recognised for its tradition of excellence. The UTS program was the first Australian program to be accredited by the Project Management Institute’s (PMI) Global Accreditation Centre. The foundation subjects are compatible with the structures used by the PMI and Australian Institute of Project Management (AIPM) to certify practitioners. This program provides practice-based knowledge, skills and tools for the delivery of different types and sizes of projects and programs across all industry sectors, underpinned by theory and research. At the forefront of industry trends, the UTS program incorporates project complexity, program management, governance, reflective practice and leadership.

Course aims
Successful graduates of the course can:
1. select and critically apply relevant theory to practice
2. develop and apply appropriate project management methodologies to suit different project and organisational contexts
3. demonstrate application of reflective practice
4. communicate in a variety of forms across culturally diverse project and organisational contexts
5. demonstrate the capacity to take a leadership role in project, program and portfolio management
6. demonstrate advanced-level skills in managing relationships between key stakeholders in a variety of contexts both in Australia and internationally
7. exhibit an understanding of the application of ethical practice to project governance in a variety of settings both in Australia and internationally
8. select and apply creative problem-solving skills to all phases of the project life cycle
9. apply critical thinking, analytical and research skills to a range of project and program management contexts
10. understand, select from and apply a range of systems thinking approaches to a variety of project and organisational contexts.

Career options
The course is highly regarded by industry as providing in-demand, ‘professionally excellent’ graduates. Its focus on leadership, program management and governance increases the employability of graduates at senior levels in many local and international industries, including banking and finance, construction and engineering, event management, government, health and IT.

Credit recognition
Applicants with a four-year degree in a related field of study may be given up to 24 credit points of exemptions.

Course duration and attendance
The course can be completed on a one-year, full-time basis.

Course structure
Students choose 48 credit points from a list of available subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90603</td>
<td>PM Foundation</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90604</td>
<td>PM Choice 2</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Total 48cp

Course program
A typical course program is shown below.

Year 1

Autumn semester
Select 24 credit points from the following options: 24cp
15315 Project Management Principles 6cp
15313 Project Procurement and Risk Management 6cp
15316 Project Time, Cost and Quality Management 6cp
15312 Communication and Critical Thinking 6cp
15456 Industry Project Studies A 12cp
15336 Reflective Project Practice 6cp
15311 Managing Complex Projects 6cp
15314 Project Implementation 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
15326 Project Management Practicum 6cp

Spring semester
Select 24 credit points from the following options: 24cp
15315 Project Management Principles 6cp
15313 Project Procurement and Risk Management 6cp
15316 Project Time, Cost and Quality Management 6cp
15312 Communication and Critical Thinking 6cp
15336 Reflective Project Practice 6cp
15311 Managing Complex Projects 6cp
15314 Project Implementation 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
15326 Project Management Practicum 6cp
15456 Industry Project Studies A 12cp

Articulation with UTS courses
This exit-only course is part of an articulated program comprising the Graduate Certificate in Project Management (C11005) (see page 422), the Graduate Diploma in Project Management, the Master of Project Management (C04006) (see page 300) and the Master of Business Administration (Project Management major) (C04018) (see page 303). Each stage is self-contained and can be undertaken through part-time or full-time study.

Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 48 credit points of study and gain a graduate diploma qualification.

Professional recognition
This program is accredited by the Project Management Institute’s (PMI) Global Accreditation Centre and the Royal Institute of Chartered Surveyors (RICS). It is endorsed by the Australian Institute of Project Management (AIPM), which is a member of the International Project Management Association (IPMA).

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C07012v6 Graduate Diploma in Accounting and Finance

Award(s): Graduate Diploma in Accounting and Finance (GradDipAccFin)
CRICOS code: 020411D
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Accounting and Finance provides advanced-level material in core contemporary accounting and finance issues.

Career options
Career options include management-level positions in industry or government.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience or satisfactory completion of a relevant graduate certificate from UTS or other recognised higher education institution.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course can be completed in one year of full-time or two years of part-time study.

Course structure
The course comprises 48 credit points of core subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21827</td>
<td>Change Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21844</td>
<td>Managing Work and People</td>
<td>6cp</td>
</tr>
<tr>
<td>21741</td>
<td>Managing Operations</td>
<td>6cp</td>
</tr>
<tr>
<td>21717</td>
<td>International Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21720</td>
<td>Human Resource Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21779</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21800</td>
<td>Management and Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>21827</td>
<td>Change Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21832</td>
<td>Managing for Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>21844</td>
<td>Managing Work and People</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 48cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting and Finance (C11015) (see page 423), the Graduate Diploma in Accounting and Finance, and the Master of Business in Accounting and Finance (C04038) (see page 306).

Other information
Further information is available from UTS: Business on:

telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg/

C07018v4 Graduate Diploma in Management
Award(s): Graduate Diploma in Management (GradDipM)
CRICOS code: 009678C
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus (Haymarket), although subjects may also be selected from among those offered at Kuring-gai campus

Overview
The Graduate Diploma in Management aims to extend the management skills gained by students in the Graduate Certificate in Management by providing the opportunity to explore these skills in greater breadth and depth.

An innovative, flexible structure provides students with maximum
choice in selecting subjects and programs of study tailored to meet their personal and professional needs.

Course aims
The Graduate Diploma in Management is designed to meet the needs of individuals, client organisations and professional bodies for management education.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience or satisfactory completion of a relevant graduate certificate from UTS or other recognised higher education institution.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course duration is one year of full-time or two years of part-time study.

Course structure
The course totals 48 credit points of core subjects.

Course completion requirements
STM90735 Core subjects (Management) 48cp
Total 48cp

Course program
The course program is shown below.
21717 International Management 6cp
21720 Human Resource Management 6cp
21741 Managing Operations 6cp
21779 Management Skills 6cp
21800 Management and Organisations 6cp
21827 Change Management 6cp
21832 Managing for Sustainability 6cp
21844 Managing Work and People 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Management (C11021) (see page 424), the Graduate Diploma in Management, and the Master of Business in Management (C04229) (see page 346).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/rego
C07019v5 Graduate Diploma in Community and Not-for-Profit Management

Award(s): Graduate Diploma in Community and Not-for-Profit Management (GradDipCommunityNFPM)
CRICOS code: 032341C
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Community and Not-for-Profit Management builds on the graduate certificate and extends skills and knowledge in human resource and legal aspects of non-profit management. It also offers an opportunity to pursue areas of specialist interest. The course is industry-relevant and flexible study modes are offered.

Career options
Career options include management of non-government or non-profit organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course duration is one year of full-time or two years of part-time study. This course is taught in flexible mode, including three intensive workshops of five days each, self-managed learning packages and learning partnerships to develop peer-supported networks.

Course structure
The course comprises 48 credit points of study, consisting of eight core subjects.

Course completion requirements
21766 Managing Community Organisations 6cp
21767 Not-for-Profit Sector Theory and Context 6cp
21817 Volunteer Management 6cp
21778 Resource Mobilisation 6cp
21897 Corporate Social Responsibility and Social Impact 6cp
27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
22747 Accounting for Managerial Decisions 6cp
21751 Management Research Methods 6cp

Total 48cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Community and Not-for-Profit Management (C11024) (see page 425), the Graduate Diploma in Community and Not-for-Profit Management, and the Master of Management (C04239) (see page 357).

C07021v7 Graduate Diploma in Finance

Award(s): Graduate Diploma in Finance (GradDipFin)
CRICOS code: 020210B
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Finance provides financial institution knowledge and decision-making skills for executives in financial institutions, corporations and financial consultancies. The course provides participants with the opportunity to acquire knowledge of finance theory and techniques for leading-edge professional practice purposes.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one year of full-time or two years of part-time study.

Course structure
The course comprises 48 credit points of core subjects.

Course completion requirements
25705 Financial Modelling and Forecasting 6cp
25741 Capital Markets 6cp
25721 Investment Management 6cp
22747 Accounting for Managerial Decisions 6cp
25706 Economics for Management 6cp
25742 Financial Management 6cp
25765 Corporate Finance 6cp
25731 International Finance 6cp

Total 48cp

Further information
Further information is available from the UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/
Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Finance (C11027) (see page 425), the Graduate Diploma in Finance and the Master of Business in Finance (C04048) (see page 307).

Professional recognition
The course covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered.

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/

C07023v3 Graduate Diploma in Quantitative Finance
Award(s): Graduate Diploma in Quantitative Finance (GradDipQF)
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course is not offered to international students.

Overview
The Quantitative Finance program provides the opportunity to acquire the detailed specialised knowledge and the professional competency required to work as a quantitative finance analyst in the modern finance industry.
This course provides the core knowledge of the modern financial instruments and the fundamentals of the specialised quantitative finance skills required for a basic professional competency in quantitative finance.

Career options
Career options for graduates include positions as quantitative analysts, risk management analysts, quantitative structures, quantitative developers, forecasters, traders, investment analysts and financial engineers across investment banks, trading banks, hedge funds, investment management companies, consulting companies, energy and mining companies, regulatory bodies and government organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Previous qualifications must be in finance or with a strong mathematical background. Entry to the course is at the discretion of the course director.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students may be granted a maximum of five subject exemptions in the Graduate Diploma in Finance, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course duration is two years of part-time study.

Course structure
The course totals 48 credit points, comprising core subjects and options.

Course completion requirements
STM90318 Core subjects (Quantitative Finance) 48cp
Total 48cp

Course program
The course program is shown below.
25832 Financial Markets Instruments 6cp
25834 Portfolio Analysis 6cp
25837 Financial Econometrics 6cp
25854 Statistical Methods for Quantitative Finance 6cp
25855 Fundamentals of Derivative Security Pricing 6cp
25856 Probability Theory and Stochastic Processes 6cp
Select 12 credit points from the following options: 12cp
25849 Financial Risk Management 6cp
25850 Credit Risk 6cp
25851 Mathematical Finance 6cp
25857 Interest Rate Modelling 6cp

Articulation with UTS courses
Students who successfully complete this course may apply for admission to the Master of Quantitative Finance (C04052) (see page 308).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg/

C07027v7 Graduate Diploma in Tourism Management
Award(s): Graduate Diploma in Tourism Management (GradDipTourismM)
CRICOS code: 006583A
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: Kuring-gai campus, although subjects may also be selected from among those offered at City campus (Haymarket)

Overview
The Graduate Diploma in Tourism Management is designed to develop critical, interpretive and problem-solving skills, and to provide a broad coverage of the tourism management field and some opportunity for studying areas of specific interests.
The course has been developed to meet the demand for professionals with a high level of management expertise.

Course aims
Throughout the course, emphasis is placed on the acquisition of strategic planning skills for tourism development, management and marketing.

Career options
Career options include management, marketing and policy-analysis roles in national and regional tourism offices, hotels, airlines, tour operators, tourist attractions and events.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
The equivalent qualification required is a bachelor's degree in any discipline or satisfactory completion of a relevant graduate certificate.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects can be approved from prior undergraduate study.

Course duration and attendance
The course is one year of full-time or two years of part-time study. It is offered at Kuring-gai campus, although some subjects may be offered at City campus.

Course structure
The course comprises 48 credit points, consisting of eight subjects.

Course completion requirements
27735 Tourism and the Industry 6cp
27757 Tourist Behaviour 6cp
21751 Management Research Methods 6cp
27733 The Experience Economy 6cp
27706 Managing Tourism Services 6cp
27734 Marketing for the Experience Industries 6cp
27700 Sustainable Tourism Management 6cp
22747 Accounting for Managerial Decisions 6cp
Total 48cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Tourism Management (C11033) (see page 426), the Graduate Diploma in Tourism Management and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/gsb

C07028v7 Graduate Diploma in Arts Management
Award(s): Graduate Diploma in Arts Management [GradDipAM]
CRICOS code: 009576E
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus (Haymarket), although some subjects are offered at Kuring-gai campus

Overview
The Graduate Diploma in Arts Management builds on the graduate certificate to develop students’ critical, interpretive and problem-solving capabilities. It provides a solid grounding in the fundamentals of arts management and cultural policy, while providing room for some specialisation and the development of specific interests.

The course offers a combination of core management subjects specifically designed for the arts environment. The Graduate Diploma is an extremely popular course and is held in high regard by the arts industry.

Course aims
The course provides both theoretical and applied knowledge relevant to Australia’s contemporary arts and cultural environment and related industries.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The equivalent qualification required is a bachelor’s degree in any discipline or satisfactory completion of a relevant graduate certificate.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two subjects can be approved from prior undergraduate study.

Course duration and attendance
The course is one year of full-time or two years of part-time study. It is offered mainly at City campus (Haymarket). Some subjects may be offered at Kuring-gai campus.

Course structure
The course comprises 48 credit points, consisting of eight subjects.

Course completion requirements
27735 Arts and Cultural Industries 6cp
27755 Arts Organisations and Management 6cp
21751 Management Research Methods 6cp
27733 The Experience Economy 6cp
22747 Accounting for Managerial Decisions 6cp
27734 Marketing for the Experience Industries 6cp
27767 Tourist Behaviour 6cp
27747 Venue and Facility Management 6cp
Total 48cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Arts Management (C11033) (see page 426), the Graduate Diploma in Arts Management and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg

C07029v6 Graduate Diploma in Sport Management
Award(s): Graduate Diploma in Sport Management [GradDipSportM]
CRICOS code: 014223C
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: Kuring-gai campus, although subjects may be selected from among those offered at City campus [Haymarket]

Overview
The Graduate Diploma in Sport Management is designed to develop critical, interpretive and problem-solving skills and to provide a broad coverage of the sport management field. The course provides specific training in sport management and offers some opportunity for the development of specific interests.

Course aims
The course provides the theoretical knowledge needed to understand the changing nature of the Australian sport environment.

Career options
Career options include sport marketing and sponsorship, sport public relations, sport venue management, sport event management, human resource management in sport, player management, and sport policy development.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. The equivalent qualification required is a bachelor’s degree in any discipline or satisfactory completion of a relevant graduate certificate.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enroll full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two subjects can be approved from prior undergraduate study.

Course duration and attendance
The course is one year of full-time or two years of part-time study. It is offered at Kuring-gai campus. Some subjects may be offered at City campus.

Course structure
The course comprises 48 credit points, consisting of eight subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22732</td>
<td>Sport Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>22715</td>
<td>Sport Business</td>
<td>6cp</td>
</tr>
<tr>
<td>21751</td>
<td>Management Research Methods</td>
<td>6cp</td>
</tr>
<tr>
<td>27735</td>
<td>The Experience Economy</td>
<td>6cp</td>
</tr>
<tr>
<td>27717</td>
<td>Venue and Facility Management</td>
<td>6cp</td>
</tr>
<tr>
<td>27734</td>
<td>Marketing for the Experience Industries</td>
<td>6cp</td>
</tr>
<tr>
<td>27721</td>
<td>Sport Globalisation</td>
<td>6cp</td>
</tr>
<tr>
<td>22747</td>
<td>Accounting for Managerial Decisions</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total 48cp</td>
<td></td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Sport Management (C11037) (see page 427), the Graduate Diploma in Sport Management and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg

C07031V6 Graduate Diploma in Marketing
Award(s): Graduate Diploma in Marketing (GradDipMktg)
CRICOS code: 008678M
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Marketing provides a thorough understanding of the basic principles of marketing, marketing research, the motivations of customers and marketing management. The course assists students in developing the ability to identify and analyse marketing management problems and fosters skills in generating marketing strategies to solve problems in the marketing domain, both in Australia and overseas.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience or satisfactory completion of a relevant graduate certificate from UTS or other recognised higher education institution.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects can be approved from prior undergraduate study.

Course duration and attendance
The course can be completed in one year of full-time or two years of part-time study.

Course structure
The course comprises 48 credit points, made up of four core subjects (24 credit points each) or a generalist choice block (24 credit points).

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90720</td>
<td>Core subjects (Marketing)</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CBK90635</td>
<td>Marketing streams</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90708</td>
<td>Generalist Marketing choice</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total 48cp</td>
<td></td>
</tr>
</tbody>
</table>

Course program
The course program is shown below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>24710</td>
<td>Buyer Behaviour</td>
<td>6cp</td>
</tr>
<tr>
<td>24720</td>
<td>Marketing Research</td>
<td>6cp</td>
</tr>
<tr>
<td>24730</td>
<td>Marketing Strategy</td>
<td>6cp</td>
</tr>
<tr>
<td>24734</td>
<td>Marketing Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 24 credit points from the following options:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STM90717 Marketing Management</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>STM90718 Marketing Strategy</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>STM90719 Marketing Research</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>CBK90706 Generalist Marketing choice</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Marketing (C11039) (see page 428), the Graduate Diploma in Marketing, and the Master of Business in Marketing (C04067) (see page 308).

Professional recognition
Completion of this course meets the educational requirements for Professional Postgraduate Diploma in Marketing entry point to Chartered Institute of Marketing (CIM).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Overview
This course is designed to provide registered nurses with a wide range of options to further their study in the field of nursing. Students gain knowledge, expertise and competencies in one of many clinical specialty areas, clinical teaching or clinical management (international students must undertake the Clinical Teaching sub-major or the Clinical Management sub-major).

Students can customise their program to meet personal learning needs or workplace requirements in order to further their career with sub-majors available in acute care nursing, anaesthetics and recovery room nursing, child and family health nursing, children’s nursing, clinical management, clinical teaching, critical care nursing, diabetes education and management, mental health nursing, neonatal nursing, neuroscience nursing and perioperative nursing.

Course aims
This course aims to:
• develop the student’s career as a clinician, manager or educator
• extend and enhance existing skills
• help build confidence and leadership skills
• provide academic experience and qualification
• enhance career prospects.

Career options
Career options include advanced clinical practice, nursing education and management in both clinical and community areas.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must hold a current Authority to Practise, or be a registered nurse in their own country or place of residence and hold a current Authority to Practise.

Applicants must have concurrent employment in, or access to, the specialty, clinical teaching or clinical management (international students can only undertake the Clinical Teaching sub-major or the Clinical Management sub-major).

Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

Course structure
Students must complete a total of 48 credit points (eight subjects).

The course comprises two core subjects, one sub-major (in a clinical speciality, clinical teaching or clinical management) and two elective subjects.

Note: International students can only undertake the Clinical Teaching sub-major or the Clinical Management sub-major.

Course completion requirements
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90597</td>
<td>Domestic students</td>
<td>48cp</td>
</tr>
<tr>
<td>STM90598</td>
<td>International students</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Total 48cp

Course program
The part-time program for this course corresponds to the first two years of the Master of Nursing (C04228) (see page 344). An example program for the Critical Care Nursing sub-major in part-time mode is shown below.

Critical Care Nursing sub-major, part time

Year 1

**Autumn semester**
92918 Fundamentals of Critical Care Nursing 6cp
92713 Health Breakdown 6cp

**Spring semester**
92919 Complex Critical Care 6cp
92869 Specialty Clinical Practice 6cp

Year 2

**Autumn semester**
92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp

**Spring semester**
Select 12 credit points from the following options: 12cp
CBK900514 Electives

Articulation with UTS courses
This course articulates with the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Cheryl Waters
Course coordinator
telephone +61 2 9514 5741
e-mail Cheryl.Waters@uts.edu.au
www.health.uts.edu.au
C07048V7 Graduate Diploma in Health Services Management

Award(s): Graduate Diploma in Health Services Management (GradDipHSM)
UAC code: 942815 (Autumn semester), 945815 (Spring semester)
CRICOS code: 04693B
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course offers a mid-year intake for local and international students.

Overview
This is an intermediate-level course in health services management and aims to expand students’ knowledge and future career opportunities. The course develops students’ knowledge and skills, which leads to an enhanced capacity to plan and manage health services. Graduates of this course are exposed to academic and industry leaders who share their experience and knowledge to facilitate insight into the contemporary health service management environment.

Course aims
This course is designed to prepare new, aspiring, and middle health managers for roles in health services management in a variety of settings.

Career options
Career options include positions in health authorities, hospitals, primary and community care, aged care services, and other healthcare facilities in the public, private, not-for-profit, government and non-government health sectors.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who do not have an undergraduate degree but who have extensive relevant work experience in a health or human services field may also be considered eligible.

Applicants must have at least a minimum of one year, full-time (or part time equivalent) experience in a medium to large organisation. Health or human services experience is preferred. Work experience undertaken in small work settings (e.g. private practice settings with a small number of professionals) or as part of intern requirements are not accepted.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

Subjects are offered via on-campus study. Part-time students usually study two subjects a semester.

Course structure
Students must complete a total of 48 credit points, comprising six core subjects offered by UTS: Health, and two electives offered by UTS: Health and UTS: Business.

Course completion requirements
STM90763 Core subjects (Health Services Management) 36cp
CBK90879 Electives 12cp
Total 48cp

Course program
Example programs for students undertaking the course full time and part time and commencing in Autumn semester are shown below.

Autumn commencing, full time
Year 1
Autumn semester
92606 Issues in Australian Health Services 6cp
92296 Epidemiology and Population Health 6cp
92050 Policy, Power and Politics in Health Care 6cp
Select 6 credit points from the following options: CBK90879 Electives 12cp

Spring semester
92603 Managing Quality, Risk and Cost in Health Care 6cp
92887 Organisational Management in Health Care 6cp
92917 Using Health Care Data for Decision Making 6cp
Select 6 credit points from the following options: CBK90879 Electives 12cp

Autumn commencing, part time
Year 1
Autumn semester
92606 Issues in Australian Health Services 6cp
92050 Policy, Power and Politics in Health Care 6cp

Spring semester
92887 Organisational Management in Health Care 6cp
92917 Using Health Care Data for Decision Making 6cp
Select 6 credit points of options 6cp

Year 2

Autumn semester
92296 Epidemiology and Population Health 6cp
Select 6 credit points from the following options: CBK90879 Electives 12cp

Spring semester
92603 Managing Quality, Risk and Cost in Health Care 6cp
Select 6 credit points from the following options: CBK90879 Electives 12cp

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Spring commencing, part time

Year 1

Spring semester
92606 Issues in Australian Health Services 6cp
92887 Organisational Management in Health Care 6cp

Year 2

Autumn semester
92950 Policy, Power and Politics in Health Care 6cp
92917 Using Health Care Data for Decision Making 6cp

Spring semester
92603 Managing Quality, Risk and Cost in Health Care 6cp
Select 6 credit points from the following options: 6cp
CBK90879 Electives 12cp

Year 3

Autumn semester
92296 Epidemiology and Population Health 6cp
Select 6 credit points from the following options: 6cp
CBK90879 Electives 12cp

Articulation with UTS courses
This course is part of an articulated program which comprises the Graduate Certificate in Health Services Management (C11107) (see page 438), the Graduate Diploma in Health Services Management, and the Master of Health Services Management (C11107) (see page 326).

Professional recognition
Australasian College of Health Service Management (ACHSM)

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Dr Jennifer Bichel-Findlay
Course coordinator
e-mail Jennifer.Bichel-Findlay@uts.edu.au
www.health.uts.edu.au

C07070V5 Graduate Diploma in Midwifery
Award(s): Graduate Diploma in Midwifery (GradDipMid)
UAC code: 942805 (ICSPI) (Autumn semester)
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
Students admitted to the Graduate Diploma in Midwifery before 2012 should refer to the course entry in the 2011 handbook.
Limited commonwealth-supported places are available.
This course is not offered to international students.

Overview
This course is designed to meet the graduate needs of registered nurses wishing to gain registration to practise in the area of midwifery. It provides a broad theoretical and clinical study in midwifery, and includes a discussion of professional, sociopolitical and ethico-legal issues related to the family, and research skills that enhance midwifery practice and interpersonal processes. Students undertake concurrent employment as a student midwife in an accredited midwifery unit. Midwives are in high demand at present, in both the public and private health systems, and the current shortage is expected to continue for some time.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must be a registered nurse in Australia.
Applicants are required to apply for employment in a midwifery student position through the centralised recruitment process. This process is administered by the New South Wales Department of Health Nursing and Midwifery Office. Applications open in July and close in August.
In addition, applicants need to apply to UTS for a position in the Graduate Diploma in Midwifery. This is either through the Universities Admission Centre (UAC) or directly to the University on specific postgraduate information evenings (check UTS website for details). Acceptance in the Graduate Diploma in Midwifery at UTS is dependent on the applicant securing employment as a student midwife.
Applicants also need to be available to attend classes from early February, for the first week of midwifery classes.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at:
Students should ensure that details of their registration are up-to-date on this register.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
This course is offered over a 14-month, full-time period.

Course structure
Students must complete a total of 48 credit points, comprising eight compulsory subjects.

Industrial training/professional practice
The course requires concurrent employment in an accredited midwifery unit for one year (four days a week) in order for students to meet the requirements to gain midwifery registration with the National Board of Nursing and Midwifery. This is either through the Universities Admission Centre (UAC) or directly to the University on specific postgraduate information evenings (check UTS website for details). Acceptance in the Graduate Diploma in Midwifery at UTS is dependent on the applicant securing employment as a student midwife.
Applicants also need to be available to attend classes from early February, for the first week of midwifery classes.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at:
Students should ensure that details of their registration are up-to-date on this register.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course completion requirements
92973 Midwifery Practice 1 6cp
92785 Midwifery in Complex Situations 6cp
92983 Midwifery Practice 2 6cp
92927 Evidence-based Practice (Midwifery) 6cp
92922 The Meaning of Birth 6cp
92636 Preparation for Midwifery Practice 6cp
92631 Midwifery as Primary Health Care 6cp
92637 Supporting Families 6cp
Total 48cp

Course program
A typical program is shown below.

Year 1

Autumn semester
92636 Preparation for Midwifery Practice 6cp
92973 Midwifery Practice 1 6cp
92631 Midwifery as Primary Health Care 6cp
92927 Evidence-based Practice (Midwifery) 6cp

Spring semester
92785 Midwifery in Complex Situations 6cp
92637 Supporting Families 6cp
92922 The Meaning of Birth 6cp
92983 Midwifery Practice 2 6cp

Further study at UTS
Students who complete the Graduate Diploma in Midwifery may be eligible to apply for 24 credit points (four specified subjects) of exemptions in the Master of Midwifery (C04247) (see page 371).
Professional recognition
Nursing and Midwifery Board of Australia. See the faculty rules for more information.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Allison Cummins
Course coordinator
telephone +61 2 9514 4913
email Allison.Cummins@uts.edu.au
www.health.uts.edu.au

C07073v4 Graduate Diploma in Australian Law
Award(s): Graduate Diploma in Australian Law (GradDipAustLaw)
UAC code: 942408 (Autumn semester), 945408 [Spring semester]
CRICOS code: 016613F
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Note(s)
This course is not appropriate for applicants who are already admitted to practise as a lawyer in NSW.

Overview
This course is designed to permit appropriately qualified lawyers from jurisdictions outside Australia to satisfy the academic requirements for admission as a lawyer of the Supreme Court of NSW. Each student’s course is individually tailored to their academic requirements, as assessed by the Legal Profession Admission Board of the Supreme Court of NSW (LPAB).

Career options
Career options include lawyer in NSW within a government or corporate department, private law firm or community law centre, providing students also undertake a course in practical legal training (PLT).

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must hold a bachelor’s degree in law from outside Australia or be admitted as a lawyer in a jurisdiction outside Australia.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Before lodging an application, applicants must contact the LPAB to determine the subjects they are required to complete to be eligible for admission to practise in NSW. Further information about admission is available at: www.lawlink.nsw.gov.au/lpab
notification from the LPAB, listing the subjects required, must accompany the application for admission into the course.

Assumed knowledge
Appropriately qualified knowledge of a legal system.

Course duration and attendance
Full-time students can complete this course in a minimum of one year. Part-time students can complete the course in a minimum of one-and-a-half years.

Course structure
The course requires completion of a minimum of 48 credit points. However, each candidate’s course of study varies depending on the number of subjects they are required to take in order to be admitted to practice in NSW. Subjects other than those listed below may be substituted depending on what subjects the LPAB requires applicants to complete to be eligible for admission to practice.

Industrial training/professional practice
Applicants should note that in order to gain admission as a lawyer of the Supreme Court of NSW they may also be required to undertake a course in PLT, such as the UTS Practical Legal Training Program.

Course completion requirements
Select 48 credit points from the following options: 48cp
70120 Legal Method and Research 6cp
70218 Criminal Law 6cp
70211 Contracts 6cp
70311 Torts 6cp
70317 Australian Constitutional Law 6cp
70321 Real Property 6cp
70327 Commercial Law 6cp
70417 Corporate Law 6cp
70617 Administrative Law 6cp
70517 Equity and Trusts 6cp
70717 Evidence and Criminal Procedure 6cp
75402 Property Transactions 6cp
75403 Commercial and Estate Practice 6cp
75412 Legal Skills 6cp
75413 Advocacy 6cp
75420 Ethics and Professional Conduct 6cp
75421 Civil Litigation 6cp
70115 Perspectives on Law 8cp
Total 48cp

Professional recognition
This course may satisfy the requirements for admission to the Supreme Court of NSW. The Legal Profession Admission Board may recognise subjects attempted within this course. Applicants are advised to obtain written confirmation of the LPAB in recognition of subjects attempted within this course prior to enrolling.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Prerequisite courses
C07074v4 Graduate Diploma in Legal Studies

Award(s): Graduate Diploma in Legal Studies (GradDiplLS)
UAC code: 941407 (Summer session), 942407 (Autumn semester), 945407 (Spring semester)
CRICOS code: 021718K
Commonwealth-supported place?: No
Load credit points: 36
Course EFTSL: 0.75
Location: City campus

Note(s)
The Graduate Diploma in Legal Studies is not a professional legal qualification. Applicants seeking to be admitted to practice should refer to the Juris Doctor (C04236) (see page 354) or the Bachelor of Laws (C10124) (see page 179). Students may apply for some subjects undertaken within the Graduate Diploma in Legal Studies to be credited towards these degrees.

Overview
The Graduate Diploma in Legal Studies meets the growing need for non-law graduates working in the public and private sectors to have a thorough understanding of the legal and regulatory framework in which they operate. This includes an understanding of foundational legal concepts such as contract law and tort law, methods of legal research and theory, as well as the opportunity to sample specialist legal areas such as compliance and intellectual property law.

The course attracts students from a wide variety of backgrounds interested in expanding their skill portfolio to include an understanding of the legal framework, including professionals from the insurance, human resources, banking and finance industries, managers and administrators, and HSC legal studies teachers.

Career options
This course particularly benefits accountants and auditors, business development managers, compliance managers, engineers and architects, financial advisers and planners, IT professionals, law enforcement officers, paralegals, policy officers in the public, private and non-profit sectors, property developers and public sector managers and administrators (especially those who work in the Department of Foreign Affairs and Trade, the Attorney-General’s Department and Treasury).

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in a discipline other than law. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one year of full-time or one-and-a-half years of part-time study. Subjects may also be available in Summer session, allowing accelerated progression.

The course is offered in a variety of attendance patterns, including intensive block attendance and weekly on-campus evening classes.

Course structure
The course requires completion of core subjects, including two compulsory introductory subjects and a choice of two further foundation subjects (30 credit points), plus a further option subject (6 credit points). (Refer to the course entry in the UTS: Handbook 2007 for the pre-2008 course structure. For a current listing of subjects in each course, refer to the study package directory. In particular, refer to the correct structure of the Legal Studies major choice in CBK90501.)

Core subjects are timetabled every semester and option subjects are regularly timetabled but not all option subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au

Course completion requirements
STM90689 Core subjects
CBK90593 Options
30cp
6cp
Total 36cp

Articulation with UTS courses
Subjects undertaken within the Graduate Diploma in Legal Studies are recognised within the Master of Legal Studies (C04147) (see page 330). Students enrolled in the graduate diploma may apply to internally transfer to the master’s. Candidates are not awarded the graduate diploma but subjects undertaken are applied towards the master’s.

Subjects undertaken within the Juris Doctor (C04236) (see page 354) are recognised within the Graduate Diploma in Legal Studies.

Students enrolled in the Juris Doctor may apply to internally transfer to the graduate diploma. Candidates are not awarded the Juris Doctor but subjects undertaken are applied towards the graduate diploma.

Other information
Further information for future students is available from: telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.uts.edu.au

C07078v3 Graduate Diploma in Interactive Multimedia

Award(s): Graduate Diploma in Interactive Multimedia (GradDiplIMM)
UAC code: 942606 (Autumn semester), 945606 (Spring semester)
CRICOS code: 029621K
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
This course is designed for students from a wide variety of disciplines who may or may not already be working in areas of multimedia. For this reason, it contains a considerable number of elective subjects to enable students to gain new areas of knowledge or broaden existing areas.

While this program is managed by the Faculty of Engineering and Information Technology, it is a joint program between the Institute for Interactive Media and Learning and a number of teaching faculties. The program is designed to educate the innovators and future leaders of the various professions working in multimedia. Graduates acquire the fundamentals in multimedia, underpinning an up-to-date, flexible set of production skills in their own specialised area.

Course aims
A defining characteristic of multimedia education at UTS is the integration of theory and practice in all of the relevant disciplines and professions. The course aims to develop students’ professional skills for direct application in the workplace, while providing a solid overview and understanding of the social, historical and industrial role of multimedia communication technologies. Graduates are prepared for a career in a rapidly growing and changing industry.

Career options
Career options include positions in digital media, the mobile web, information architecture, interaction design, new media, web design, web development and web project management. Various events are organised throughout the year to showcase student work and give students the opportunity to speak with industry professionals, including recruiters.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Alternatively, applicants can have a diploma from any field and substantial relevant professional experience, or substantial senior professional experience. Applicants with a three-year undergraduate degree (or equivalent), must also have either one year of relevant professional experience or a credit average or better in a Graduate Certificate in Interactive Multimedia.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Given the interdisciplinary focus and teamwork emphasis of this course, credit recognition and subject exemptions are not normally granted for other postgraduate study or work experience.

Course duration and attendance
The course is usually completed in one year of full-time or two years of part-time study.

Course structure
The course comprises 48 credit points of study and consists of four core subjects and four elective subjects (which may include core subjects for students intending to exit the program at graduate diploma level).

Industrial training/professional practice
Industrial training is available to both local and international students as a separate work-based learning course. Students can enrol into the Diploma in Information Technology Professional Practice (C20049) (see page 299) after completing a minimum of four core subjects. Students can be assisted in finding an internship, or may wish to have current relevant industry work experience recognised.

Course completion requirements
CBK90085 Core subjects 12cp
CBK90033 Electives (Interactive Multimedia) 24cp
Select 12 credit points from the following options: 12cp
95563 Digital Media Development Process 6cp
95564 Digital Media Technologies 6cp
95565 Digital Graphics and the Still Image 6cp
Total 48cp

Course program
The example below shows a typical full-time program for a student commencing in Autumn semester. Part-time students choose two subjects per semester and usually complete the core requirements in their first three semesters of study. Elective subjects may be chosen from across the University and must be approved by the multimedia program leader and then the relevant faculty.

Year 1
Autumn semester
Select 12 credit points from the following options: 12cp
95563 Digital Media Development Process 6cp
95564 Digital Media Technologies 6cp
95565 Digital Graphics and the Still Image 6cp
Select 12 credit points of electives 12cp
Spring semester
Select 12 credit points from the following options: 12cp
95566 Digital Information and Interaction Design 6cp
95567 Digital Media in Social Context 6cp
95568 Digital Sound and the Moving Image 6cp
Select 12 credit points of electives 12cp

Articulation with UTS courses
This course forms part of an articulated program of study comprising the Graduate Certificate in Interactive Multimedia (C11143) (see page 448), the Graduate Diploma in Interactive Multimedia, and the Master of Interactive Multimedia (C04158) (see page 333).

Other information
Further information on the Interactive Multimedia program is available from:
hp://nim.iml.uts.edu.au

C07080v6 Graduate Diploma in Internetworking
Award(s): Graduate Diploma in Internetworking (GradDiplInternetworking)
UAC code: 942610 (Autumn semester), 945610 (Spring semester)
CRICOS code: 043340B
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
This course is intended for computing science, information technology or engineering graduates with or without networking experience who wish to learn or extend their knowledge of networking and networking technologies. As students come from a variety of backgrounds, there is a degree of subject choice in the program to meet individual needs.
The Internetworking program provides practical, hands-on learning experience using resources provided by Cisco Systems for internetworking, including routing, switching, security, wireless and VoIP. Advanced electives in internetworking, in addition to CCNA and CCNP preparation subjects, are available. The program covers all aspects of the organisational use of networks: design, implementation, security management, end systems and applications.

Course aims
The program aims to:
• meet the needs of industry for networking specialists
• target a number of industry-based certifications: CCNA (Cisco Certified Network Associate) and CCNP (Cisco Certified Network Professional)
• retrain IT professionals wishing to move into networking and internetworking
• provide a thorough and practical grounding in networking, network design, and administration and management, and
• provide a solid foundation for the writing of networked applications using Unix, Java and WWW technologies.

Career options
Career options include applications developer, client server architect, data communications, network administrator, network architect, network designer, network integrator, network systems programmer, programmer analyst, security architect or system support analyst.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Previous qualifications are preferred in computing science, information technology, computer engineering, telecommunications, or a related discipline.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Assumed knowledge
Two years’ experience in networking or in another position in the IT industry is desirable. Applicants without work experience are also considered.

Credit recognition
Exemptions are granted only for subjects at graduate certificate level. There are no exemptions granted for the networking subjects 32524 and 32521 without the successful completion of the challenge test for each of the above. A challenge test is required even for holders of a CCNA or CCNP certification and those who have passed the CCNA curriculum in TAFE Certificate IV and/or Diploma. These challenge tests are always held in the week prior to the commencement of classes.

Course duration and attendance
The course duration is one year of full-time or two years of part-time study.

Course structure
The course totals 48 credit points of study, made up of four core subjects comprising the graduate certificate (a total of 24 credit points), a research preparation subject (6 credit points), plus a further 18 credit points chosen from a prescribed list. In some circumstances it may be possible to choose one elective from outside the list, provided it is approved by the course coordinator.

Course completion requirements
| CBK90465 Internetworking choice | 18cp |
| CBK90476 Internetworking choice | 6cp  |
| STM90729 Core subjects          | 24cp |
| Total                            | 48cp |

Course program
Below is a typical example of a full-time program commencing in Autumn semester.

Students wishing to take 32521 WANS and VLANs can enrol in this subject as either a core or an elective. 32521 has a prerequisite of 32524 LANS and Routing and therefore cannot be taken during the first semester of study. 32521 can be undertaken in the second semester in conjunction with one of the CCNP subjects with the course coordinator’s approval.

A student wishing to undertake subjects in order to sit the Cisco CCNA certification exam must speak to either the course coordinator or the course administrator about subject choices and subject load.

Note: Electives are only offered in a particular semester (or year) if there is sufficient demand and the necessary resources.

Year 1

Autumn semester
- 32118 Mobile Communications and Computing 6cp
- 32224 LANS and Routing 6cp
- 32547 UNIX Systems Programming 6cp
- 32144 Technology Research Preparation 6cp

Spring semester
- CBK90476 Internetworking choice 6cp
- Select 18 credit points of options 18cp

Articulation with UTS courses
This course forms part of an articulated program comprising the Graduate Certificate in Internetworking (C11145) (see page 449), the Graduate Diploma in Internetworking, the Master of Science in Internetworking (CD4160) (see page 333) and the Master of Science in Internetworking (Extended) (CD4224) (see page 341).

Professional recognition
Graduates qualify for professional-level membership of the Australian Computer Society (ACS). Students can prepare for Cisco CCNA and CCNP industry certification.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C07107v3 Graduate Diploma in Information Management

Award(s): Graduate Diploma in Information Management (GradDipInfM)
UAC code: 942517 (Autumn semester), 945517 (Spring semester)
CRICOS code: 0323470
Commonwealth-supported places: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Information Management is designed for people who wish to provide information services to others, or who need to manage and use information effectively within organisations. In this course, graduates gain an understanding of the relationship between individuals and information and knowledge practices.

Course aims
Graduates have:
- demonstrated sophisticated information-handling skills appropriate for professional practice in diverse environments
- an understanding of the relationship between individuals and public/private recorded information and knowledge practices, tacit/explicit knowledge and how these can be valued, captured, structured and shared for effective use
- an understanding of contemporary issues, trends, innovations and forces for change in information practice as well as the broader political, policy and technological contexts
- an understanding of ethical practice and the ability to operate with integrity, rigour, self-reliance and cooperation in professional contexts
- demonstrated creative, critical, reflective problem-solving capabilities in the context of their professional roles and a commitment to lifelong learning.

Career options
Career options include information architect, information consultant, information content developer, information designer, information manager, librarian, media researcher or research officer.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification may submit a personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirements: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time or equivalent part-time basis.

Course structure
The course consists of four compulsory subjects plus two electives chosen from a specified list. Students can choose an elective subject beyond the specified list only with the approval of the graduate adviser.

Students should undertake Knowledge Management and the Organisation or Information Research and Data Analysis as their
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
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<td>8cp</td>
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<td>8cp</td>
</tr>
<tr>
<td>57084</td>
<td>Information Architecture and Design</td>
<td>8cp</td>
</tr>
<tr>
<td>57146</td>
<td>Organising Information</td>
<td>8cp</td>
</tr>
<tr>
<td>CBK90520</td>
<td>Electives</td>
<td>16cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>48cp</strong></td>
</tr>
</tbody>
</table>

**Autumn program**

Example programs are shown below.

**Autumn commencing, full time**

**Year 1**

**Autumn semester**

<table>
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**Spring semester**

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<tbody>
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</table>

Select 16 credit points of electives

**Year 2**

**Autumn semester**

<table>
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<tbody>
<tr>
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<td>Information Architecture and Design</td>
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</table>

Select 8 credit points of electives

**Spring commencing, full time**

**Year 1**

**Spring semester**

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Select 8 credit points of electives

**Year 2**

**Autumn semester**

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</table>

Select 8 credit points of electives

**Spring commencing, part time**

**Year 1**

**Spring semester**

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<tr>
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<tbody>
<tr>
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Select 8 credit points of electives

**Year 2**

**Autumn semester**

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Select 8 credit points of electives

**Course completion requirements**

57148 Discovering and Accessing Information 8cp  
57100 People, Information and Knowledge 8cp  
57084 Information Architecture and Design 8cp  
57146 Organising Information 8cp  
CBK90520 Electives 16cp  
Total 48cp

**Autumn program**

Example programs are shown below.

**Autumn commencing, full time**

**Year 1**

**Autumn semester**

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**Spring semester**

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<td>Organising Information</td>
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Select 16 credit points of electives

**Autumn commencing, part time**

**Year 1**

**Autumn semester**

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Select 8 credit points of electives

**Year 2**

**Autumn semester**

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Select 8 credit points of electives

**Spring commencing, full time**

**Year 1**

**Spring semester**

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<tr>
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Select 8 credit points of electives

**Year 2**

**Autumn semester**

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Select 8 credit points of electives

**Spring commencing, part time**

**Year 1**

**Spring semester**

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Select 8 credit points of electives

**Year 2**

**Autumn semester**

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Select 8 credit points of electives

**Articulation with UTS courses**

This course articulates with the Master of Arts in Information and Knowledge Management (C04203) (see page 336). Students who successfully complete this course and who are admitted to the master's course are eligible for credit recognition for completed subjects.

**Professional recognition**

Graduates are eligible for professional membership of the Australian Library and Information Association (ALIA).

**Other information**

Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

**C07112v3 Graduate Diploma in Operations and Supply Chain Management**

Award(s): Graduate Diploma in Operations and Supply Chain Management (GradDipOSCM)  
CRICOS code: 055275G  
Commonwealth-supported place?: No  
Load credit points: 48  
Course EFTSL: 1  
Location: City campus

**Overview**

The Graduate Diploma in Operations and Supply Chain Management extends the Graduate Certificate and provides the opportunity for some specialisation.

**Course aims**

The course seeks to enhance professionals' understanding of the nature and contribution of supply chain and operational management functions in the organisational context.

**Career options**

Career options include management-level positions in service industry and areas traditionally associated with business operations management.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience or satisfactory completion of a relevant graduate certificate from UTS or other recognised higher education institution.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5; or Internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**

Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.
Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

Course structure
The course totals 48 credit points and consists of a combination of core and elective subjects.

Course completion requirements
STM90736 Core subjects (Operations Supply Chain Management) 30cp
CBK90384 Electives (Operations and Supply Chain Management) 18cp
Total 48cp

Course program
The course program is shown below.
21741 Managing Operations 6cp
21743 Business Excellence 6cp
Select one of the following: 6cp
21779 Management Skills 6cp
21877 Strategic Procurement 6cp
21797 Strategic Supply Chain Management 6cp
21844 Managing Work and People 6cp
Select 18 credit points from the following options: 18cp
15315 Project Management Principles 6cp
21745 Service Operations Management 6cp
21811 Global Strategic Management 6cp
21827 Change Management 6cp
21832 Managing for Sustainability 6cp
22782 Business Process Integration with ERP 6cp
21779 Management Skills 6cp
77942 Legal Aspects of Contracts Administration 6cp
21854 Innovation and Entrepreneurship 6cp
21877 Strategic Procurement 6cp
33340 Quantitative Management Practice 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Operations and Supply Chain Management (C11199) (see page 453), the Graduate Diploma in Operations and Supply Chain Management and the Master of Business in Operations and Supply Chain Management (C04226) (see page 342).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/gsb

C07113v2 Graduate Diploma in Human Resource Management
Award[s]: Graduate Diploma in Human Resource Management (GradDipHRM)
CRICOS code: 055276F
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
The Graduate Diploma in Human Resource Management provides an opportunity to study, at a professional level, those factors contributing to the complexity of decision-making in Australian and international employment relations.

Course aims
The Graduate Diploma in Human Resource Management is designed to meet the career needs of professionals with some experience in an area related to employment relations.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience or satisfactory completion of a relevant graduate certificate from UTS or other recognised higher education institution.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Students may be granted a maximum of five subject exemptions, of which two core subjects may be approved from prior undergraduate study.

Course duration and attendance
The course may be completed in one year of full-time or two years of part-time study.

Course structure
The course totals 48 credit points and consists of a combination of core and elective subjects.

Course completion requirements
STM90737 Core subjects (HRM) 48cp
Total 48cp

Course program
The course program is shown below.
21702 Industrial Relations 6cp
21720 Human Resource Management 6cp
21760 Performance and Talent Management 6cp
21779 Management Skills 6cp
21800 Management and Organisations 6cp
21827 Change Management 6cp
21833 International Human Resources Management 6cp
21844 Managing Work and People 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Human Resource Management (C11198) (see page 453), the Graduate Diploma in Human Resource Management and the Master of Business in Human Resource Management (C04227) (see page 343).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/gsb
C07115v1 Graduate Diploma in Architecture

Award(s): Graduate Diploma in Architecture (GradDipArch)
UAC code: 942115 (Autumn semester), 945115 (Spring semester)
CRICOS code: 06584G
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
This course is a tailored bridging course that provides a pathway into the Master of Advanced Architecture (C04240) (see page 359). It provides new skills and knowledge for students who have obtained professional qualifications prior to the introduction of digital software for design and documentation in architectural education (prior to 2000).

This is a highly flexible course which enables specialisation in either urban design or design technologies. Each student has a tailored program of architectural design and architectural practice subjects, based on their needs and experience.

The course equips graduates with skills of entrepreneurship, marketing, business and management necessary for leadership in the profession.

It provides a more flexible entry point for international students into the Master of Advanced Architecture (C04240) (see page 359).

Course aims
This course provides an alternative pathway for students from outside UTS, or with previous qualifications obtained prior to the use of digital software for design generation, building performance analysis and documentation, to gain the skills, knowledge and academic experiences that make them eligible to continue into the Master of Advanced Architecture (C04240) (see page 359) in either urban design or design technologies.

Through the core architectural design studio subjects, graduates are equipped with strategic thinking, spatial organisation and visual design skills, and develop further their verbal and written communication abilities. Project-based studio subjects explore research, design concepts, implementation strategies and presentation techniques. Through the core professional practice subjects, students develop their knowledge of all aspects of industry and practice management, furthering their capacity for leadership in the profession, locally and internationally.

Career options
Career options are focused on leading design and technical innovation roles in architectural and urban design practice.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants require a professional entry degree of five-years, full-time or equivalent from an accredited program in architecture or a four-year, full-time or equivalent degree from an accredited program in landscape architecture. All applicants must submit a portfolio of work demonstrating their design skills for examination in addition to a statement of interest in the course.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is offered on a one-year, full-time basis.

Course structure
The course totals 48 credit points of selected Master of Architecture subjects made up of two 12-credit-point subjects in the architectural design stream, two 6-credit-point architectural practice subjects and two 6-credit-point electives.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90627</td>
<td>Architectural Design</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90630</td>
<td>Electives</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90631</td>
<td>Architectural Practice</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90815</td>
<td>Electives</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90631</td>
<td>Architectural Practice</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90627</td>
<td>Architectural Design</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Total 48cp

Further study at UTS
This course is a pathway into the Master of Advanced Architecture (C04240) (see page 359).

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

C07118v1 Graduate Diploma in Teaching English to Speakers of Other Languages

Award(s): Graduate Diploma in Teaching English to Speakers of Other Languages (GradDipTESOL)
UAC code: 942228 (CSP) (Autumn semester), 942229 (PDFP) (Autumn semester), 942230 (qualified teachers only distance CSP) (Autumn semester), 942231 (qualified teachers only distance PDFP) (Autumn semester), 942229 (PDFP) (Spring semester), 942231 (qualified teachers only distance PDFP) (Spring semester)
CRICOS code: 008684B
Commonwealth-supported place?: Yes
Load credit points: 48
Course EFTSL: 1
Location: City campus

Overview
UTS is a leading provider of postgraduate language and literacy courses, with academics who are published authors and internationally recognised experts in the field. This course meets the professional development needs of a wide range of English language teachers and educators teaching children, teenagers or adults. It caters for those seeking an initial teaching qualification in teaching English to adult speakers of other languages. It is also well suited to applicants who already possess a teaching qualification and wish to gain a specialist degree in the field as they are eligible for credit recognition.

Students study subjects that equip them with skills and knowledge to teach English in a variety of contexts, both local and international. The course features flexible study options with classes held at times suitable for full-time workers. It is designed by a team of experienced TESOL professionals who are familiar with the full range of English language teaching contexts. The graduate diploma explicitly meets the needs of students and educators in the following contexts:

• working with migrants and Indigenous students across all levels of education
• teachers wishing to change discipline areas
• teaching English in countries outside of Australia
• international students wishing to study TESOL with the possibility of extending into the master's of TESOL.

Course aims
The course aims to produce TESOL teachers who are knowledgeable, reflective and engaging in their practice, have well developed interpersonal skills, are keen to put current developments in learning and teaching into practice, and have a commitment to lifelong learning.
Career options
Career options include a teacher of English as a second language in Australia or a teacher of English in overseas contexts (applicants are advised to check with potential employing bodies regarding employment requirements).

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Local students
Local applicants apply through the Universities Admissions Centre.

International students
International students apply through UTS International.

Credit recognition
Graduates of the Graduate Certificate in Teaching English to Speakers of Other Languages (C11223) (see page 463) or equivalent teaching qualification (such as a primary or secondary school teaching qualification or an adult education teaching qualification) are eligible for 24 credit points of credit recognition.

Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

Students who receive 24 credit points of credit recognition may complete the course by distance, but only if relevant distance subjects are selected.

The subjects in STM90529 are run in standard weekly mode for TESOL students, except for 010071 Professional Practice 2 Language Literacy and Numeracy, which is run in block mode.

Course structure
The course comprises 48 credit points, made up of four compulsory core subjects (totalling 24 credit points) and four elective subjects (totalling 24 credit points). Not all electives are offered every semester.

Industrial training/professional practice
There is a practicum placement for subjects 010070 Professional Practice 1 Language Literacy and Numeracy and 010071 Professional Practice 2 Language Literacy and Numeracy.

Course completion requirements

<table>
<thead>
<tr>
<th>Course completion requirements</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90529 Core subjects (TESOL)</td>
<td>24cp</td>
</tr>
<tr>
<td>CBK90830 Electives (TESOL specialisation)</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90829 Electives (TESOL foundation)</td>
<td>12cp</td>
</tr>
<tr>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Course program
The following examples show typical full-time and part-time programs for qualified teachers with credit recognition, and without credit recognition for those seeking an initial teaching qualification.

Qualified teachers who receive a minimum of 24 credit points of credit recognition may complete the course by distance, but only if relevant distance subjects are selected.

Seeking an initial teaching qualification (no credit recognition), FT, Aut

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn semester</td>
</tr>
<tr>
<td>010070 Professional Practice 1 Language Literacy and Numeracy</td>
</tr>
<tr>
<td>010071 Professional Practice 2 Language Literacy and Numeracy</td>
</tr>
<tr>
<td>Spring semester</td>
</tr>
<tr>
<td>Select 24 credit points of electives</td>
</tr>
</tbody>
</table>

Seeking an initial teaching qualification (no credit recognition), FT, Spr

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring semester</td>
</tr>
<tr>
<td>Select 24 credit points of electives</td>
</tr>
</tbody>
</table>

Teaching qualification graduates with credit recognition, FT, Aut

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn semester</td>
</tr>
<tr>
<td>Select 24 credit points of electives</td>
</tr>
<tr>
<td>Teaching qualification graduates with credit recognition, FT, Spr</td>
</tr>
<tr>
<td>Select 24 credit points of electives</td>
</tr>
</tbody>
</table>

Seeking an initial teaching qualification (no credit recognition), PT, Aut

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn semester</td>
</tr>
<tr>
<td>010070 Professional Practice 1 Language Literacy and Numeracy</td>
</tr>
<tr>
<td>010071 Professional Practice 2 Language Literacy and Numeracy</td>
</tr>
<tr>
<td>Spring semester</td>
</tr>
<tr>
<td>Select 12 credit points of electives</td>
</tr>
</tbody>
</table>

Seeking an initial teaching qualification (no credit recognition), PT, Spr

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring semester</td>
</tr>
<tr>
<td>Select 12 credit points of electives</td>
</tr>
</tbody>
</table>

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
The course has two main components: specialised master classes led by a studio leader and industry partners and theory and technology subjects taught across the program.

The program focuses on and integrates research, industry collaboration, internationalisation and a design culture through the delivery of specialist, core and trans-disciplinary subjects. It provides a postgraduate education that is flexible in both its practice orientation and research integration.

With a focus on design evolution, innovative integration of new technologies, practice and student experimentation, the course is delivered by experienced studio leaders who are acknowledged leaders in the specific industries and professions.

Course aims
Designed to produce a balance between high levels of specialisation and lateral thinking, the program enables students to examine design from a trans-disciplinary perspective.

It enables students to explore design issues under the supervision of a practice leader, to learn new strategies and the application of research and theory. It supports best practices in postgraduate design education through learning and research strategies that critically examine design practice.

Graduates of this course are leaders in design and related industries through their expertise in product and service development. They are able to utilise strategic processes, creative tools and research skills for innovation in design.

The program provides a suite of subjects for postgraduate designers in the areas of interaction, strategy and enterprise, lighting design, technotextiles, and text and image. Common subjects explore related conceptual challenges and questions of visual expression in the quest to develop useful, usable and resonant designs. These include understanding and articulating the importance of ‘user experience’, the role of design in humanising information, the aesthetic and conceptual dynamics of effective communication, strategic thinking, and aspects of design management, branding and communication.

Career options
Graduates’ careers are enhanced by high-level professional knowledge and skills for the workplace, with possession of specialised knowledge in advanced textiles, space and materials, interaction, sustainable design and innovation.

Course duration and attendance
The course is offered on a one-year, full-time or two-year, part-time basis.

Course structure
Students must complete 48 credit points of subjects.

Course completion requirements
CBK90669 Design Expertise choice 48cp
Total 48cp

Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 48 credit points of study and gain a graduate diploma qualification.

Other information
Further information is available from the Building 6 Student Centre on:

Phone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Further information is available from UTS: Education at:

Phone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
Phone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx

C07119v1 Graduate Diploma in Design
Award(s): Graduate Diploma in Design (GradDipDesign)
CRICOS code: 071750G
Commonwealth-supported place?: No
Load credit points: 48
Course EFTSL: 1

Note(s)
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty:
Transfer is for students enrolled in the Master of Design (C04243) (see page 366).

Overview
Unique in Australia, the course is intellectually vibrant, socially engaging, visionary, practice focused and actively linked to industry. This course is centred around building a design community network.
C07120V1 Graduate Diploma in Media Arts and Production

Overview

The Graduate Diploma in Media Arts and Production is part of an articulated program in media arts and production that includes moving image, sound, digital media and interaction, and the interplay among these media.

Course aims

This course aims to provide students with core skills in moving image, digital media or sound production; expertise in one area of media arts and production; a capacity to think creatively and critically about, and contribute to, developments within the media industries; an awareness of industry practices in media production; the capacity to develop and critically revise their own work; and project management skills in the context of a media project.

Career options

Career options include various roles in a creative team across multiple modes of production and post-production of moving image, sound, digital media and interaction. Graduates have skills to develop their own media projects.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0; internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition

Students who successfully completed the graduate certificate in the articulated program are eligible for credit recognition for completed subjects.

Course duration and attendance

The course is offered on a one-year, full-time or one-and-a-half-year, part-time basis.

Course structure

Students complete 48 credit points of study made up of three core subjects and three elective subjects.

Full-time students are required to undertake 24 credit points a semester. Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90806</td>
<td>Electives (MAP)</td>
<td>24cp</td>
</tr>
<tr>
<td>STM90555</td>
<td>Core subjects (Media Arts and Production)</td>
<td>24cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Course program

Below are examples of typical programs for full and part-time students. Students can choose to complete core subjects and elective/sub-major subjects in any order, however, prerequisites may apply.

Autumn commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Moving Image</td>
<td>8cp</td>
</tr>
<tr>
<td>Fall</td>
<td>Mise-en-Scene</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Sound and Interaction</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring commencing, full time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Sound and Interaction</td>
<td>8cp</td>
</tr>
<tr>
<td>Fall</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring commencing, part time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Moving Image</td>
<td>8cp</td>
</tr>
<tr>
<td>Summer</td>
<td>Select 16 credit points of electives</td>
<td>16cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Sound and Interaction</td>
<td>8cp</td>
</tr>
<tr>
<td>Fall</td>
<td>Mise-en-Scene</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Spring commencing, part time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Moving Image</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Sound and Interaction</td>
<td>8cp</td>
</tr>
<tr>
<td>Fall</td>
<td>Mise-en-Scene</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>Select 8 credit points of electives</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Media Arts and Production (C11227) (see page 465), the Graduate Diploma in Media Arts and Production and the Master of Media Arts and Production (C04248) (see page 372).

Other information

Further information is available from the UTS Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C07121V1 Graduate Diploma in Midwifery Studies

Award(s): Graduate Diploma in Midwifery Studies [GradDipMidSt]
CRICOS code: Pending
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 1

Note(s)
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.
Transfer is for students enrolled in the Master of Midwifery (C04247) (see page 371).
This course is not offered to international students.

Overview
This course aims to provide registered midwives with an opportunity to develop both their practice and professional roles and to develop the skills, attitudes and knowledge needed to meet the developing role of a midwife. In addition, the course aims to provide students with an avenue through which to further their clinical, research, teaching, leadership and/or management roles. The course is designed to offer students the opportunity to customise their program to meet personal learning needs or workplace requirements.

Course completion requirements
STM90530 Level 1 subjects (Midwifery) 24cp
STM90531 Level 2 subjects (Midwifery) 24cp
Total 48cp

Articulation with UTS courses
This exit-only course is part of an articulated program comprising the Graduate Certificate in Midwifery Studies (C11226) (see page 465), the Graduate Diploma in Midwifery Studies and the Master of Midwifery (C04247) (see page 371).

Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 48 credit points of study and gain a graduate diploma qualification.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Allison Cummins
Course coordinator
telephone +61 2 9514 4913
email Allison.Cummins@uts.edu.au
www.health.uts.edu.au

C11001V5 Graduate Certificate in Property and Planning

Award(s): Graduate Certificate in Property and Planning [GradCertPropPlan]
UAC code: 942102 [Autumn semester], 945102 [Spring semester]
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
This course provides a unique environment for planners and property developers to develop a mutual understanding of how to balance private and public interests in urban development. It has a strong focus on sustainable urban development.

The Graduate Certificate in Property and Planning is a foundation course for students who go on to study the Master of Planning (C04007) (see page 301) or the Master of Property Development (C04008) (see page 302). Both disciplines require close cooperation and this course shows students how to achieve better urban outcomes through closer partnerships between those building cities with those planning them.

Course aims
The course gives property development students an introduction to the rationale of planning and its legal framework, an introduction to the principles and practice of sustainable urban development and experience in developing a plan for a real-world urban renewal site. It gives planning students a greater understanding of key issues in property development, such as valuation and feasibility. The course provides students with a combination of experiential learning experiences, teamwork, exposure to practical skills development, together with a thorough understanding of economic, environmental and other knowledge underpinning urban management and development.

Career options
Career options are in banking and property investment, finance, government departments and agencies, local government, major development companies, management and development, and private consulting firms.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Appropriate first degrees include a bachelor’s degree in planning, architecture, geography, economics, property economics, commerce, law, engineering and building. Students can hold an advanced TAFE diploma in a property-related discipline. Other qualifications may be accepted if supported by extensive relevant work experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-semester, full-time or one-year, part-time basis. It is delivered in face-to-face mode.

Course completion requirements
STM90502 Core subjects (Property and Planning) 24cp
Total 24cp

Course program
An example course program is provided below.

Full time
Year 1
Autumn semester
15142 Introduction to Property and Planning 6cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp
Select one of the following:
12535 Valuation Application 6cp
15222 Urban Design 6cp

Articulation with UTS courses
The Graduate Certificate in Property and Planning articulates into the Graduate Diploma in Planning (C07002) (see page 401) or the Graduate Diploma in Property Development (C06006) (see page 385).

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C11005v5 Graduate Certificate in Project Management

Award(s): Graduate Certificate in Project Management [GradCertPM]
UAC code: 942104 (Autumn semester), 945104 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Notes
This course is not offered to international students.

Overview
With close industry contact, the course is delivered through block workshops designed to emulate project environments, giving students the opportunity to directly develop their ability to manage real projects. The program is rigorous, and is globally recognised for its tradition of excellence. The UTS program was the first Australian program to be accredited by the Project Management Institute's (PMI) Global Accreditation Centre. The foundation subjects are compatible with the structures used by the PMI and Australian Institute of Project Management (AIPM) to certify practitioners.

This program provides practice-based knowledge, skills and tools for the delivery of different types and sizes of projects and programs across all industry sectors, underpinned by theory and research. At the forefront of industry trends, the UTS program incorporates project complexity, program management, governance, reflective practice and leadership.

Course aims
Successful graduates of the course can:
- select from and apply a broad range of tools and methods used to manage projects
- demonstrate an understanding of reflective practice
- exhibit an understanding of the application of ethical principles to project management practice in a variety of settings both in Australia and internationally
- demonstrate an understanding of communication in a variety of forms across culturally diverse project contexts
- understand appropriate information systems for application within a project management context
- understand principles involved in managing relationships between key project stakeholders
- understand the principles of project team leadership in culturally diverse teams
- apply foundation level skills to problem analysis and decision-making
- apply critical thinking and creative problem solving skills to project management contexts
- understand and apply basic research skills
- demonstrate foundation-level knowledge of systems thinking as it applies to project management.

Career options
The course is highly regarded by industry as providing in-demand, 'professionally excellent' graduates. Its focus on leadership, program management and governance increases the employability of graduates at senior levels in many local and international industries, including banking and finance, construction and engineering, event management, government, health and IT.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Admission is at the discretion of the course director. Students require a recognised undergraduate degree plus six months industry experience, or five years industry experience, or a recognised professional qualification with six months relevant work experience. The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-semester, full-time or one-year, part-time basis.
The course is delivered in face-to-face mode (on campus or offshore in conjunction with selected education partners).

Course structure
Students complete four compulsory subjects totalling 24 credit points.

Course completion requirements
CBK90603 PM Foundation 24cp
Total 24cp

Course program
A typical course program is shown below.

Year 1
Autumn or Spring semester
Select 24 credit points from the following options: 24cp
15315 Project Management Principles 6cp
15313 Project Procurement and Risk Management 6cp
15316 Project Time, Cost and Quality Management 6cp
15312 Communication and Critical Thinking 6cp

Articulation with UTS courses
The course may be taken as a separate award or can articulate into, and form part of, the Master of Project Management (C04006) (see page 300). The project management program structure allows students a choice of entry requirements and study paths leading to the award of graduate certificate (24 credit points), Graduate Diploma in Project Management (C07004) (see page 402) (48 credit points), Master of Project Management (C04006) (see page 300) (72 credit points) and Master of Business Administration (Project Management major) (C04018) (see page 303) (96 credit points). Each stage is self-contained and can be undertaken through part-time or full-time study.

Professional recognition
This program is accredited by the Project Management Institute's (PMI) Global Accreditation Centre and the Royal Institute of Chartered Surveyors (RICS). It is endorsed by the Australian Institute of Project Management (AIPM), which is a member of the International Project Management Association (IPMA).

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222 Ask UTS www.ask.uts.edu.au www.dab.uts.edu.au

C11008v6 Graduate Certificate in Business Administration

Award(s): Graduate Certificate in Business Administration [GradCertBusAdmin]
CRICOS code: 018156K
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Business Administration provides foundation skills used in the general management of a business enterprise for non-graduates who have extensive business experience.

Course aims
General management skills are developed to provide expertise in strategic thinking, critical analysis, developing and implementing business plans, decision-making under uncertainty, understanding organisational dynamics, effective communication and promoting change.

Career options
Career options include management-level positions in industry or government.
Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course may be completed in one semester of full-time or one year of part-time study.

Course structure
The course comprises four of the core MBA subjects, totalling 24 credit points.

Course completion requirements
- 25706 Economics for Management 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 21800 Management and Organisations 6cp
- 21878 Organisational Dialogue: Theory and Practice 6cp

Total 24cp

Course program
The course program is shown below.

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Business Administration, the Graduate Diploma in Business Administration (C06009) (see page 386) and the Master of Business Administration (MBA) (C04018) (see page 303). Students who complete the graduate certificate at credit level or above may apply directly for admission into the MBA program.

Other information
Further information is available from UTS: Business on:
phone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au / pg

C11015v7 Graduate Certificate in Accounting and Finance
Award(s): Graduate Certificate in Accounting and Finance (GradCertAccFin)
CRICOS code: 022411K
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Accounting and Finance provides a general understanding of the basic elements of accounting and finance. The course is designed for students without a strong undergraduate background in accounting and /or finance who need some of the key basic building blocks before proceeding to advanced-level subjects in a master's program. It is also appropriate for students who have no undergraduate degree but extensive practical experience and who can use the program to prove their ability to undertake postgraduate study.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course duration is one-semester of full-time or one-year of part-time study.

Course structure
The course comprises 24 credit points of core subjects.

Course completion requirements
- 25742 Financial Management 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 25706 Economics for Management 6cp
- 79708 Contemporary Business Law 6cp

Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting and Finance, the Graduate Diploma in Accounting and Finance (C07012) (see page 402) and the Master of Business in Accounting and Finance (C04038) (see page 306).

Other information
Further information is available from UTS: Business on:
phone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au / pg

C11017v4 Graduate Certificate in Accounting Information Systems
Award(s): Graduate Certificate in Accounting Information Systems (GradCertAccIS)
CRICOS code: 020213K
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Accounting Information Systems provides a general understanding of the basic elements of accounting and related areas of study. The course is designed for students without a strong undergraduate background in accounting who need some of the key basic building blocks before proceeding to advanced-level subjects in a master's program. It is also appropriate for students who have no undergraduate degree but extensive practical experience and who can use the program to prove their ability to undertake postgraduate study.
Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years’ relevant work experience. Applicants without a degree require eight years’ full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course may be completed in one semester of full-time or one year of part-time study.

Course structure
The course comprises 24 credit points of core subjects.

Course completion requirements
STM90343 Core subjects (Accounting Information Systems) 24cp

Course program
The course is shown below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22759</td>
<td>Accounting and ERP</td>
<td>6cp</td>
</tr>
<tr>
<td>22747</td>
<td>Accounting for Managerial Decisions</td>
<td>6cp</td>
</tr>
<tr>
<td>22766</td>
<td>Assurance for Enterprise Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>22708</td>
<td>Accounting Information Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Accounting Information Systems and the Master of Business in Accounting Information Systems (C04037) (see page 305).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3600
e-mail business@uts.edu.au
www.business.uts.edu.au/pg

C11021V4 Graduate Certificate in Management
Award(s): Graduate Certificate in Management (GradCertM)
CRICOS code: 016932B
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus (Haymarket), although subjects may also be selected from among those offered at Kuring-gai campus

Overview
The Graduate Certificate in Management introduces students to knowledge and experiences that enhance their professional skills and understanding of the management of people, resources and organisational processes.
C11024v4 Graduate Certificate in Community and Not-for-Profit Management

Overview
The Graduate Certificate in Community and Not-for-Profit Management provides a basic introduction to the field and develops skills and knowledge in the areas of financial management and funding.

Career options
Career options include managing non-government or non-profit organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is taught in flexible mode including three intensive workshops of five days each, self-managed learning packages and learning partnerships to develop peer-supported networks.

Course structure
The course comprises 24 credit points of study, made up of four compulsory subjects.

Course completion requirements
- 21766 Managing Community Organisations 6cp
- 21767 Not-for-Profit Sector Theory and Context 6cp
- 21817 Volunteer Management 6cp
- 21778 Resource Mobilisation 6cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Community and Not-for-Profit Management, the Graduate Diploma in Community and Not-for-Profit Management (C07019) (see page 404) and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg

C11027v5 Graduate Certificate in Finance

Overview
The Graduate Certificate in Finance provides an introduction to finance theory and practice. It is of particular interest to those working in the various fields of finance and banking whose backgrounds are in fields other than business, finance, commerce or accounting.

The course provides students with the opportunity to acquire knowledge of finance theory and techniques for leading-edge professional practice purposes.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course can be completed in one semester of full-time or one year of part-time study.

Course structure
The course comprises 24 credit points, made up of four compulsory subjects.

Course completion requirements
- 25742 Financial Management 6cp
- 23706 Economics for Management 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 25741 Capital Markets 6cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Finance, the Graduate Diploma in Finance (C07021) (see page 404) and the Master of Business in Finance (C04048) (see page 307).

Professional recognition
The course covers a broad range of the specialist knowledge areas required to be ASIC RG146 registered.

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg
C11033v6 Graduate Certificate in Arts Management

Award(s): Graduate Certificate in Arts Management (GradCertArtsM)
CRICOS code: 022835G
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus (Haymarket), although some subjects are offered at Kuring-gai campus

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Arts Management provides a basic introduction to the arts and cultural industries in Australia, and some fundamental management skills.

Course aims
The course provides both theoretical and applied knowledge relevant to Australia’s contemporary arts and cultural environment and related industries.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants without a degree require eight years’ full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis. It is offered at City campus (Haymarket).

Course structure
The course comprises 24 credit points of study, made up of four compulsory subjects.

Course completion requirements
27753 Arts and Cultural Industries 6cp
27755 Arts Organisations and Management 6cp
27747 Accounting for Managerial Decisions 6cp
27734 Marketing for the Experience Industries 6cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Arts Management, the Graduate Diploma in Arts Management (C107028) (see page 406) and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C11035v6 Graduate Certificate in Tourism Management

Award(s): Graduate Certificate in Tourism Management (GradCertTourM)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus, although some subjects may also be selected from among those offered at City campus (Haymarket)

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Tourism Management provides an introduction to the tourism industry and to relevant basic management skills.
The course has been developed to meet the demand for professionals with a high level of management expertise.

Course aims
Throughout the course, emphasis is placed on the acquisition of strategic planning skills for tourism development, management and marketing.

Career options
Career options include management, marketing and policy-analysis roles in national and regional tourism offices, hotels, airlines, tour operators, tourist attractions and events.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants without a degree require eight years’ full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course duration is one year of part-time study. It is offered at Kuring-gai campus, although some subjects may be offered at City campus (Haymarket).

Course structure
The course comprises 24 credit points of study, made up of four compulsory subjects.

Course completion requirements
27735 Tourism and the Industry 6cp
27767 Tourist Behaviour 6cp
27706 Managing Tourism Services 6cp
27734 Marketing for the Experience Industries 6cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Tourism Management, the Graduate Diploma in Tourism Management (C107027) (see page 405) and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/gsb
C11037yV5 Graduate Certificate in Sport Management
Award(s): Graduate Certificate in Sport Management (GradCertSportM)
CRICOS code: 014222D
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus, although subjects may also be selected from among those offered at City campus (Haymarket)

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Sport Management provides a basic introduction to the sport industry environment in Australia and an introduction to basic management skills.
The course comprises core subjects designed to provide specific training in sport management.

Course aims
The course provides the theoretical knowledge needed to understand the changing nature of the Australian sport environment.

Career options
Career options include sport marketing and sponsorship, sport public relations, sport venue management, sport event management, human resource management in sport, player management, and sport policy development.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants without a degree require eight years’ full-time relevant work experience and evidence of a general capacity to undertake tertiary education.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course duration is one year of part-time study. It is offered at Kuring-gai campus, although some subjects may be offered at City campus (Haymarket).

Course structure
The course comprises 24 credit points of study, made up of four compulsory subjects.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>27732</td>
<td>Sport Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>27715</td>
<td>Sport Business</td>
<td>6cp</td>
</tr>
<tr>
<td>27717</td>
<td>Venue and Facility Management</td>
<td>6cp</td>
</tr>
<tr>
<td>27734</td>
<td>Marketing for the Experience Industries</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Sport Management, the Graduate Diploma in Sport Management (C07029) (see page 406) and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg

C11038V5 Graduate Certificate in Event Management
Award(s): Graduate Certificate in Event Management (GradCertEvtM)
CRICOS code: 046113M
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus, Haymarket

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Event Management is designed to introduce students to the events field and develop their skills and knowledge relating to the management of various event forms.
Subjects in the program focus on the core skills and knowledge associated with event creation, operations and marketing.

Course aims
The course introduces key theoretical concepts and issues impacting upon the management of events.

Career options
Career options include festival organiser, conference organiser / meeting planner, charity event coordinator, sport event manager, hotel / resort / cruise ship event coordinator, exhibition organiser, venue manager and event creative director.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants without a degree require eight years’ full-time relevant work experience and evidence of a general capacity to undertake tertiary education.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course duration is one year of part-time study. It is offered at City campus (Haymarket). Some subjects may be offered in intensive mode.

Course structure
The course comprises 24 credit points of study, made up of four compulsory subjects.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>27727</td>
<td>Event Creation Workshop</td>
<td>6cp</td>
</tr>
<tr>
<td>27765</td>
<td>Event Management</td>
<td>6cp</td>
</tr>
<tr>
<td>27726</td>
<td>Event Concepts and Contexts</td>
<td>6cp</td>
</tr>
<tr>
<td>27737</td>
<td>Event Risk Management</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Event Management, the Graduate Diploma in Event Management (C06017) (see page 387) and the Master of Management (C04239) (see page 357).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
e-mail business@uts.edu.au
www.business.uts.edu.au/pg
C11039v4 Graduate Certificate in Marketing

Overview

The Graduate Certificate in Marketing introduces some of the key dimensions of marketing and is designed for those requiring a general understanding of marketing principles. This course provides contemporary theoretical marketing knowledge and the practical skills required for superior performance in Australian and international markets.

Career options

Career options include management-level positions in industry or government.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The course can be completed in one semester of full-time or one year of part-time study.

Course structure

The course comprises 24 credit points of study, made up of four subjects.

Course completion requirements

24710 Buyer Behaviour 6cp
24720 Marketing Research 6cp
24730 Marketing Strategy 6cp
24734 Marketing Management 6cp
Total 24cp

Articulation with UTS courses

This course is part of an articulated program comprising the Graduate Certificate in Marketing, the Graduate Diploma in Marketing (C07031) (see page 407), and the Master of Business in Marketing (C04067) (see page 308).

Other information

Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/pg

C11048v3 Graduate Certificate in Engineering

Overview

This course is designed to provide an opportunity for practising professional engineers or technologists to extend their engineering knowledge and to update their knowledge and skills in line with recent advances. It also allows graduates in related disciplines to undertake formal study in engineering, and may be of value to professionally qualified immigrant engineers seeking orientation to Australian conditions and practice.

This course is designed to provide an opportunity for practising professional engineers or technologists to extend their engineering knowledge and to update their knowledge and skills in line with recent advances. It also allows graduates in related disciplines to undertake formal study in engineering, and may be of value to professionally qualified immigrant engineers seeking orientation to Australian conditions and practice.

Career options

Career options allow participants to enhance their ability to understand some principles of engineering either at a basic level or in the choice of their major.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Candidates without a degree, but who have a TAFE diploma or equivalent and with suitable work experience, may also apply for this course. All applications are assessed individually.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.
International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Credit recognition is considered in accordance with the University policy on credit recognition (www.gsu.uts.edu.au/policies/credit-recognition.html). The maximum amount of credit recognition granted is 6 credit points (without exception). Further information is available at: www.eng.uts.edu.au/courses/postgraduate/credit-recognition.html

Course duration and attendance
The course may be taken on a one-semester, full-time or one-year, part-time basis. Classes are usually held in the evenings, in block and/or in distance mode.

Course structure
Students complete 24 credit points of study, designing their own program to suit individual needs. Program details are determined prior to enrolment, in consultation with, and with the approval of, an academic adviser designated by the Postgraduate Coursework Programs, UTS: Engineering.

Some program majors may require students to complete prescribed subjects with or without opportunity for electives. In these cases, the area of program major is recognised on the candidate’s academic record.

At least 60 per cent of the content of any individual program shall consist of subjects offered by UTS: Engineering. Subject selection should be clearly related to a professional theme.

A major need not be selected, though a major is granted if three subjects (18 credit points) are completed within a particular postgraduate program major.

Course completion requirements
CBK90329 Major choice 24cp
Total 24cp

Course program
The tables below give details of each major: for each major there are three tables. The first lists the compulsory subjects and allowable option choices for the major. The next two tables show the subjects typically offered in Autumn and Spring semesters. Where an elective is specified, any subject in the range 49000 to 49999 is recommended, except for 49277, 49278, 49279, 49454, 49458, 49459, 49460, 49461, 49462, 49463, 49464 and 49465. Recommended programs take account of the semesters in which subjects are offered and the way the timetable is designed to avoid clashes. Some subjects are offered in weekly mode, others in block mode, and others in distance mode or a combination of modes.

List of majors
MAJ03433 Civil Engineering 24cp
MAJ03420 Computer Control Engineering 24cp
MAJ03421 Energy Planning and Policy 24cp
MAJ03451 Integrated Logistic Support and Engineering Management 24cp
MAJ03422 Local Government Engineering 24cp
MAJ03424 Manufacturing Engineering and Management 24cp
MAJ03425 Software Engineering 24cp
MAJ03426 Structural Engineering 24cp
MAJ03428 Telecommunications Engineering 24cp
MAJ03427 Telecommunication Networks 24cp
MAJ03429 Water Engineering 24cp
CBK900472 No specified major 24cp
MAJ03458 Geotechnical Engineering 24cp
MAJ03462 Operations 24cp
MAJ03465 Biomedical Engineering 24cp
MAJ03468 Systems Engineering 24cp

Civil Engineering major
Select three subjects from the following: 18cp
49002 Managing Projects 6cp
49102 Traffic and Transportation 6cp
49105 Water Supply and Wastewater Management 6cp

49106 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49115 Facade Engineering 6cp
49121 Environmental Assessment and Planning 6cp
49126 Environmental Management of Land 6cp
49131 Bridge Design 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49143 Civil Engineering Review I 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49258 Pavement Analysis and Design 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49118 Applied Geotechnics 6cp

Select 6 credit points of electives 6cp

Civil Engineering major - subjects typically offered in Autumn
49002 Managing Projects 6cp
49106 Road Engineering Practice 6cp
49115 Facade Engineering 6cp
49121 Environmental Assessment and Planning 6cp
49131 Bridge Design 6cp
49150 Prestressed Concrete Design 6cp
49118 Applied Geotechnics 6cp

Civil Engineering major - subjects typically offered in Spring
49002 Managing Projects 6cp
49106 Road Engineering Practice 6cp
49121 Environmental Assessment and Planning 6cp
49131 Bridge Design 6cp
49150 Prestressed Concrete Design 6cp
49118 Applied Geotechnics 6cp

Select two subjects from the following: 12cp
49048 Wireless Networking Technologies 6cp
49261 Biomedical Instrumentation 6cp
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp
49274 Advanced Robotics 6cp
49275 Neural Networks and Fuzzy Logic 6cp

Select 6 credit points of electives 6cp

Computer Control Engineering major - subjects typically offered in Autumn
490048 Wireless Networking Technologies 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp
49275 Neural Networks and Fuzzy Logic 6cp

Computer Control Engineering major - subjects typically offered in Spring
49261 Biomedical Instrumentation 6cp
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
49274 Advanced Robotics 6cp

Select one of the following: 6cp
49021 Evaluation of Infrastructure Investments 6cp
49024 Energy Modelling 6cp

Select three subjects from the following: 18cp
49024 Energy Modelling 6cp
49025 Methods for Energy Analysis 6cp
49026 Electricity Sector Planning and Restructuring 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028  Policy and Planning of Energy Conservation 6cp
49029  Environmental Policy for Energy Systems 6cp
49076  Regulatory Economics 6cp
49021  Evaluation of Infrastructure Investments 6cp
49022  Energy Resources and Technology 6cp
49023  Energy and Environmental Economics 6cp

**Energy Planning and Policy major - subjects typically offered in Autumn**
49025  Methods for Energy Analysis 6cp
49026  Electricity Sector Planning and Restructuring 6cp
49027  Energy Demand Analysis and Forecasting 6cp
49021  Evaluation of Infrastructure Investments 6cp

**Energy Planning and Policy major - subjects typically offered in Spring**
49024  Energy Modelling 6cp
49028  Policy and Planning of Energy Conservation 6cp
49029  Environmental Policy for Energy Systems 6cp
49076  Regulatory Economics 6cp

**Integrated Logistic Support and Engineering Management major**
49001  Judgment and Decision Making 6cp
49039  Quality Planning and Analysis 6cp
49065  Integrated Logistic Support 6cp
49067  Reliability Availability and Maintainability 6cp

**Integrated Logistic Support Eng Mg - subjects typically offered in Autumn**
49001  Judgment and Decision Making 6cp
49039  Quality Planning and Analysis 6cp
49067  Reliability Availability and Maintainability 6cp

**Integrated Logistic Support Eng Mg - subjects typically offered in Spring**
49001  Judgment and Decision Making 6cp
49039  Quality Planning and Analysis 6cp
49065  Integrated Logistic Support 6cp

**Local Government Engineering major**
Select three subjects from the following: 18cp
49102  Traffic and Transportation 6cp
49258  Pavement Analysis and Design 6cp
49107  Urban Stormwater Design 6cp
49108  Local Government Powers and Practice 6cp
49121  Environmental Assessment and Planning 6cp
49126  Environmental Management of Land 6cp

Select 6 credit points of electives 6cp

**Local Government Engineering major - subjects typically offered in Autumn**
49102  Traffic and Transportation 6cp
49258  Pavement Analysis and Design 6cp
49107  Urban Stormwater Design 6cp
49108  Local Government Powers and Practice 6cp
49126  Environmental Management of Land 6cp

**Local Government Engineering major - subjects typically offered in Spring**
49106  Road Engineering Practice 6cp
49121  Environmental Assessment and Planning 6cp

**Manufacturing Engineering and Management major**
Select three subjects from the following: 18cp
49002  Managing Projects 6cp
49049  Air and Noise Pollution 6cp
49037  Internal Combustion Engines 6cp
49036  Materials Handling 6cp
49021  Energy Conversion 6cp
49022  Airconditioning 6cp
49035  Computer-aided Mechanical Design 6cp
49028  Turbomachines 6cp
49028  Design Optimisation for Manufacturing 6cp
49312  Advanced Flow Modelling 6cp

Select 6 credit points of electives 6cp

**Manufacturing Eng and Management - subjects typically offered in Autumn**
49002  Managing Projects 6cp
49049  Air and Noise Pollution 6cp
49037  Internal Combustion Engines 6cp
49036  Materials Handling 6cp
49021  Energy Conversion 6cp
49022  Airconditioning 6cp
49928  Design Optimisation for Manufacturing 6cp

**Manufacturing Eng and Management - subjects typically offered in Spring**
49002  Managing Projects 6cp
49049  Air and Noise Pollution 6cp
49037  Internal Combustion Engines 6cp
49036  Materials Handling 6cp
49021  Energy Conversion 6cp
49022  Airconditioning 6cp
49928  Design Optimisation for Manufacturing 6cp

**Software Engineering major**
32555  Fundamentals of Software Development 6cp
Select two subjects from the following: 12cp
49002  Managing Projects 6cp
49026  Web Technologies 6cp
49023  Software Analysis and Design 6cp
32603  Systems Quality Management 6cp

Select one subject from the following: 6cp
49001  Judgment and Decision Making 6cp
49013  Managing Information Technology in Engineering 6cp
49016  Technology and Innovation Management 6cp
49036  Quality and Operations Management Systems 6cp

**Software Engineering major - subjects typically offered in Autumn**
49001  Judgment and Decision Making 6cp
49002  Managing Projects 6cp
49013  Managing Information Technology in Engineering 6cp
49016  Technology and Innovation Management 6cp
32603  Systems Quality Management 6cp
32555  Fundamentals of Software Development 6cp
49036  Quality and Operations Management Systems 6cp

**Software Engineering major - subjects typically offered in Spring**
49001  Judgment and Decision Making 6cp
49002  Managing Projects 6cp
49013  Managing Information Technology in Engineering 6cp
49016  Technology and Innovation Management 6cp
32603  Systems Quality Management 6cp
32555  Fundamentals of Software Development 6cp
49036  Quality and Operations Management Systems 6cp

**Structural Engineering major**
Select three subjects from the following: 18cp
49047  Finite Element Analysis 6cp
49131  Bridge Design 6cp
49134  Structural Dynamics and Earthquake Engineering 6cp
49136  Application of Timber in Engineering Structures 6cp
49150  Prestressed Concrete Design 6cp
49002  Managing Projects 6cp
49115  Facade Engineering 6cp
49118  Applied Geotechnics 6cp
49119  Problematic Soils and Ground Improvement Techniques 6cp
49135  Wind Engineering 6cp
49143  Civil Engineering Review 1 6cp
49151  Concrete Technology and Practice 6cp
49254  Advanced Soil Mechanics and Foundation Design 6cp

Select 6 credit points of electives 6cp
### Structural Engineering major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49007</td>
<td>Finite Element Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6cp</td>
</tr>
<tr>
<td>49136</td>
<td>Application of Timber in Engineering Structures</td>
<td>6cp</td>
</tr>
<tr>
<td>49135</td>
<td>Wind Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49151</td>
<td>Concrete Technology and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Structural Engineering major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6cp</td>
</tr>
<tr>
<td>49131</td>
<td>Bridge Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49150</td>
<td>Prestressed Concrete Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49134</td>
<td>Structural Dynamics and Earthquake Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Telecommunications Engineering major

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49205</td>
<td>Transmission Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select two subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49205</td>
<td>Transmission Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49099</td>
<td>GSM, GPRS and EDGE Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49201</td>
<td>Integrated Services Networks</td>
<td>6cp</td>
</tr>
<tr>
<td>49238</td>
<td>Telecommunication Networks Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
</tr>
<tr>
<td>49223</td>
<td>Satellite Communication Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

### Telecommunications Engineering - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49202</td>
<td>Communication Protocols</td>
<td>6cp</td>
</tr>
<tr>
<td>32555</td>
<td>Fundamentals of Software Development</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Telecommunications Networks major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49262</td>
<td>Web Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49263</td>
<td>Software Analysis and Design</td>
<td>6cp</td>
</tr>
<tr>
<td>32570</td>
<td>Enterprise Software Architecture and Middleware</td>
<td>6cp</td>
</tr>
<tr>
<td>42902</td>
<td>Interior Routing and High Availability</td>
<td>6cp</td>
</tr>
<tr>
<td>42903</td>
<td>Multi Protocol Label Switching</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

### Telecommunication Networks major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49285</td>
<td>Emergency Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Water Engineering major

Select three subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49117</td>
<td>Floodplain Risk Management in NSW</td>
<td>6cp</td>
</tr>
<tr>
<td>49122</td>
<td>Ecology and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49255</td>
<td>Catchment Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>49116</td>
<td>Contaminated Site and Waste Remediation</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49285</td>
<td>Emergency Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

### Water Engineering major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49256</td>
<td>Flood Estimation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### Water Engineering major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>49285</td>
<td>Emergency Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

### No specified major

Select 24 credit points of options

### Geotechnical Engineering major

Select three subjects from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

### Geotechnical Engineering - subjects typically offered in Autumn

<table>
<thead>
<tr>
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<td>Environmental Management of Land</td>
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</table>

### Geotechnical Engineering - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points of electives

### Geotechnical Engineering - subjects typically offered in Autumn

<table>
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</tr>
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</table>

Select 24 credit points of options
Geotechnical Engineering - subjects typically offered in Spring

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<td>6cp</td>
</tr>
</tbody>
</table>

Operations major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49889</td>
<td>Operations Engineering</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from the following options:

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>49006</td>
<td>Risk Management in Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49069</td>
<td>Leadership and Responsibility</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
</tr>
<tr>
<td>49678</td>
<td>Reliability Availability and Maintainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49680</td>
<td>Value Chain Engineering Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49889</td>
<td>Operations Engineering</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Operations major - subjects typically offered in Autumn

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Systems Engineering major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>32569</td>
<td>Enterprise Business Requirements</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 6 credit points from electives

Systems Engineering major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>6cp</td>
</tr>
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<td>6cp</td>
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</table>

Systems Engineering major - subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Biomedical Engineering major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91429</td>
<td>Physiological Bases of Human Movement</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 12 credit points from the following options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49275</td>
<td>Neural Networks and Fuzzy Logic</td>
<td>6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics</td>
<td>6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>32555</td>
<td>Fundamentals of Software Development</td>
<td>6cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics</td>
<td>6cp</td>
</tr>
<tr>
<td>91403</td>
<td>Medical Imaging</td>
<td>6cp</td>
</tr>
<tr>
<td>91140</td>
<td>BioNanotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Biomedical Engineering major - subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
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<td>91429</td>
<td>Physiological Bases of Human Movement</td>
<td>6cp</td>
</tr>
<tr>
<td>49275</td>
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<td>6cp</td>
</tr>
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<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>32555</td>
<td>Fundamentals of Software Development</td>
<td>6cp</td>
</tr>
<tr>
<td>91403</td>
<td>Medical Imaging</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Biomedical Engineering major - subjects typically offered in Autumn

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</tr>
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<tbody>
<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
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</tr>
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<tr>
<td>49274</td>
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<tr>
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<td>BioNanotechnology</td>
<td>6cp</td>
</tr>
<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses

Study undertaken in this course may be credited in full towards a Master of Engineering (C04090) (see page 309) or Master of Engineering Studies (C04097) (see page 315) provided the entry requirements of the master's degrees are met. Completion of the course requirements does not guarantee admission to master's candidature. Eligibility for consideration may be subject to the attainment of a certain level of performance, typically a weighted average mark in completed subjects of at least 65 per cent over 18 credit points.

Other information

Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11051v3 Graduate Certificate in Environmental Engineering Management

Award(s): Graduate Certificate in Environmental Engineering Management (GradCertEEM)

UAC code: 942336 (Autumn semester), 942343 (distance) (Autumn semester), 945336 (Spring semester), 945343 (distance) (Spring semester)
CRICOS code: 025809G

Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus or distance

Overview

This course deals with the broad aspects of environmental management relevant to practising professionals in engineering science, planning, architecture, law, surveying, health and building, Engineers, scientists, town planners and other professionals working in this field have a compelling duty to ensure that the adverse effects of development on the total environment are minimised.

Environmental engineering and management is high on the political agenda. It also has a high professional priority. Students develop a background and competence in environmental management.

Course aims

The course aims to develop an awareness and understanding of the human impact on the environment with respect to waste minimisation and water quality management, and the professional skills required to work as part of an integrated team responsible for environmental planning and management.

Career options

This course is of relevance to practising professionals in architecture, building, engineering science, health, law, planning and surveying.

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Previous qualifications must be in engineering, science, design, architecture, building, surveying or planning. Provisional admission for graduates from other disciplines is available provided the education contained an adequate introduction to mathematics and physical sciences. Applicants without a degree, but who have a TAFE diploma or equivalent and with suitable work experience, may also apply for this course. All applications are assessed individually.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C, or PTE: 58-64, or CAE: 58-66

Subjects typically offered in Autumn

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49003</td>
<td>Economic Evaluation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Subjects typically offered in Spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49003</td>
<td>Economic Evaluation</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses

Work undertaken in this course may be credited in full towards the Master of Environmental Engineering Management (C04098) (see page 321) provided the requirements of the master's degree are met, in terms of subject coverage and project weighting.

Other information

Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11053v5 Graduate Certificate in Local Government Management

Award(s): Graduate Certificate in Local Government Management (GradCertLGM)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)

This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.

This course is not offered to international students.

Overview

Today's local government manager must have a high level of professional expertise together with a broad range of managerial skills and a sound understanding of the special characteristics of local government. The Graduate Certificate in Local Government Management is tailored to the local government environment, allowing managers to meet their differing professional needs, while keeping up-to-date with the latest issues.

Course duration and attendance

The course is offered on a one-year, part-time basis.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>15608</td>
<td>Corporate Management and Organisational Change</td>
<td>6cp</td>
</tr>
<tr>
<td>15604</td>
<td>Local Government Management Principles and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 12 credit points from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>15609</td>
<td>Local Environmental Management</td>
<td>6cp</td>
</tr>
<tr>
<td>15610</td>
<td>Local Government Leadership: Personal and Professional Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>15602</td>
<td>Social Planning and Development</td>
<td>6cp</td>
</tr>
<tr>
<td>15603</td>
<td>Integrated Strategic Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>15606</td>
<td>Vocational Competencies 1</td>
<td>6cp</td>
</tr>
<tr>
<td>15607</td>
<td>Vocational Competencies 2</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp
Exit award
With prior approval, students who have completed 24 credit points of study in the Graduate Diploma in Local Government Management (C06033) (see page 387) can exit their studies with a Graduate Certificate in Local Government Management.

Other information
Further information is available from:
Gabrielle Watterson
Administration Officer
telephone +61 2 9514 1659
fax +61 2 9514 2274
email Gabrielle.Watterson@uts.edu.au
www.clg.uts.edu.au

C11054v2 Graduate Certificate in Engineering Management
Award(s): Graduate Certificate in Engineering Management (GradCertEM) UAC code: 942338 (Autumn semester), 942345 (distance) [Autumn semester], 945338 (Spring semester), 945345 (distance) [Spring semester] CRICOS code: 024395M Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus and distance

Note(s)
This course is also offered offshore. It is available in Hong Kong. The language of tuition is English.

Overview
Many working engineers and technologists do not have the time to commit to a master’s course. However, the demand for management knowledge among engineers is increasing. The Graduate Certificate in Engineering Management is designed to provide management knowledge which can be tailored to fit students’ needs. The course is designed to provide practised engineers with extended knowledge beyond their first degree and to update knowledge and skills in recent advances in engineering, technology and business practice.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. Applicants without a degree, but who have a TAFE diploma or equivalent and with suitable work experience, may also apply for this course. All applications are assessed individually.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
Credit recognition is considered in accordance with the University policy on credit recognition. The maximum amount of credit recognition granted is 6 credit points (without exception). Further information is available at:

Course duration and attendance
The course can be completed in one semester of full-time or one year of part-time study. Subjects may be taken in the evening or by distance mode.

Course structure
Students complete 24 credit points of study. A minimum of 18 credit points comes from the core of the Master of Engineering Management and the remainder from core or elective subjects. Elective subjects are to be chosen from postgraduate subjects offered within UTS: Engineering, excluding 49277, 49278, 49279, 49454, 49458, 49459, 49460, 49461, 49462, 49463, 49464 and 49465.

Course completion requirements
CRB90116 Core subjects 18cp
Select 6 credit points from the following options: 6cp
CRB90230 Elective Total 24cp

Course program
The list of available subjects is shown below.
Select 18 credit points from the following options: 18cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp
Select one of the following: 6cp
22747 Accounting for Managerial Decisions 6cp
49098 Engineering Financial Control 6cp
Select one of the following: 6cp
21844 Managing Work and People 6cp
49069 Leadership and Responsibility 6cp
Select 6 credit points of electives 6cp

Subjects typically offered in Autumn
21844 Managing Work and People 6cp
22747 Accounting for Managerial Decisions 6cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp

Subjects typically offered in Spring
21844 Managing Work and People 6cp
22747 Accounting for Managerial Decisions 6cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49004 Systems Engineering for Managers 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp

Articulation with UTS courses
All the subjects in this course are taken from the Master of Engineering Management (C04094) (see page 314) (MEM) and may be credited towards the MEM on successful admission to that program.

Other information
Further information is available from:
Building 1 Student Centre
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

434  Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C11057v2 Graduate Certificate in Engineering Management

Award(s): Graduate Certificate in Engineering Management (GradCertEM)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Hong Kong

Note(s)
This course is only offered offshore. It is available in Beijing. The language of tuition is Modern Standard Chinese.

It is the Chinese language version of the Graduate Certificate in Engineering Management (C11054) (see page 434). It is offered through the Hong Kong Management Association.

Overview
Many working engineers and technologists do not have the time to commit to a full master’s course. However, the demand for management knowledge among engineers is increasing. The Graduate Certificate in Engineering Management is designed to provide management knowledge that can be tailored to fit students' needs. The course is designed to provide practised engineers with extended knowledge beyond their first degree and to update knowledge and skills in recent advances in engineering, technology and business practice.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants without formal qualifications should produce evidence of general and professional qualifications sufficient to show the educational preparation and capacity to pursue graduate studies as well as have two years of relevant work experience.

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course can be completed in one year of part-time study. This time can be reduced if additional subjects are studied in the January to March semester. The program is structured for weekend and distance mode attendance.

Course structure
Students complete 24 credit points of study.

Course completion requirements
Select 24 credit points from the following options:  24cp

49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49003 Economic Evaluation 6cp
49039 Quality Planning and Analysis 6cp
49069 Leadership and Responsibility 6cp
49098 Engineering Financial Control 6cp

Total 24cp

Articulation with UTS courses
All the subjects in this course are taken from the Master of Engineering Management (C04085) (see page 309) (MEM) and may be credited towards the MEM on successful admission to that program.

Other information
Further information is available from:
Francine Ngai
Hong Kong Management Association
telephone +852 2774 8578/8586
or
Xenia Wong
telephone +852 2774 8565
fax +852 2365 1000
16/F Tower B, Southmark
11 Yip Hing Street, Wong Chuk Hang
Hong Kong
email uts@hkma.org.hk
www.hkma.org.hk

C11058v4 Graduate Certificate in Journalism

Award(s): Graduate Certificate in Journalism (GradCertJournalism)
UAC code: 942502 (Autumn semester), 945502 (Spring semester)
CRICOS code: 017901A
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Journalism is part of an articulated program of study for people who want to start a journalism career, and for experienced journalists wanting to broaden their skills and professional technological expertise and refresh the intellectual basis of their practice.

This is the only program of its kind in Sydney, where the Australian media is increasingly concentrating. The journalism staff at UTS has a record of excellence in professional practice reflected in media contacts. In addition, the course has close links with the Australian Centre for Independent Journalism, which provides a professional setting for student work.

Course aims
Grades of the program:
- have strong research and reporting skills
- have a knowledge and critical understanding of the media
- are equipped with the necessary skills to either enter professional practice in the media or continue with additional skills and intellectual depth
- strive to promote the important role of professional and ethical journalism in the service of the public, and
- have an understanding of the role of the media in local, regional, national and global contexts.

Career options
Career options include reporter or editor in local, corporate, national or international print or broadcast media organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
Students complete a total of 24 credit points, comprising one 8-credit-point core subject, plus two 8-credit-point electives from the specified list of options.

The core subject must be undertaken in the first semester. Students may complete an elective in their first semester of study in addition to the core subject if they meet prerequisite requirements.

Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
STM90817 Core subjects (Journalism)  8cp
CBK90806 Elective subjects GC Journalism  16cp

Total 24cp

Note(s)
This course is offered intermittently.
Course program
The example part-time program shown below is for Autumn-commencing students. Students commencing in Spring semester undertake the same sequence of subjects.

Autumn commencing, part time
Year 1
Autumn semester
57011 Research and Reporting for Journalism 8cp

Spring semester
Select 16 credit points from the following options: 16cp
57016 Investigative Journalism 8cp
57012 Regulation of the Media 8cp
57013 Journalism Studies 8cp
57014 Feature Writing 8cp
57021 Journalism Internship 8cp
57138 International and Comparative Journalism 8cp
57150 Editing and Design 8cp
57151 Storytelling with Sound and Image 8cp
57152 Investigative Research in the Digital Environment 8cp
57153 Online Journalism 8cp
57156 Radio Journalism 8cp
57158 Television and Video Journalism 8cp
57166 Documentary Production 8cp
57184 Documentary: Expanded, Mobile and Networked 8cp
57187 Specialist Journalism 8cp

Career options
Career options include scriptwriter for short- and long-form drama.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis. Students must commence in Autumn semester.

Course structure
The course totals 24 credit points of study, consisting of three core subjects. The core subject, Writing for the Screen, must be undertaken in the first semester of study.

Part-time students should undertake 8 or 16 credit points a semester.

Course completion requirements
STM90814 Core subjects (Screenwriting) 16cp
CBK90894 Electives (Screenwriting) 8cp
Total 24cp

Course program
The typical course program is shown below.

Autumn commencing, part time
Year 1
Autumn semester
57142 Writing for the Screen 8cp

Spring semester
57101 Advanced Screenwriting 8cp
Select 8 credit points from the following options: 8cp
57041 Narrative Writing 8cp
57154 Writing Television Drama 8cp
57989 Mise-en-Scene 8cp
57178 Digital and Multiplatform Storytelling 8cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Journalism, the Graduate Diploma in Journalism (C06037) (see page 388) and the Master of Arts in Journalism (C04106) (see page 323). Students who successfully complete this course and who are admitted to the graduate diploma or master’s course are eligible for credit recognition for completed subjects.

Other information
Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C11066v5 Graduate Certificate in Screenwriting
Award[s]: Graduate Certificate in Screenwriting [GradCertScrWrt]
UAC code: 942507 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Notes
This course is not offered to international students.

Overview
The Graduate Certificate in Screenwriting is part of an articulated program designed to meet a range of needs for people who want to start a career in writing, and for experienced writers wanting to further develop their theoretical knowledge and skills.

Course aims
Students in this course:
- develop general and specific skills in screenwriting
- have the opportunity to develop their screenwriting skills intensively
- develop some critical knowledge of cultural and aesthetic debates
- advance an ability to develop and critically revise their own work, and
- develop an awareness of the place of writing within contemporary cultural formations.
C11071v3 Graduate Certificate in Editing and Publishing

Award(s): Graduate Certificate in Editing and Publishing (GradCertEditPubl)
UAC code: 942515 (Autumn semester), 945515 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Editing and Publishing is part of an articulated program designed to meet a range of needs for people who want to start a career in writing and for experienced writers wanting to further develop their theoretical knowledge and skills. Graduates are able to develop and critically revise their own and others’ work and are aware of the place of writing within contemporary cultural formation. They have general skills in creative writing in fiction or non-fiction and a critical knowledge of cultural and aesthetic debates. Students also develop specific industry-based skills in book editing and publishing.

Career options
Career options include editor, publisher and writer.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73; or TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with an overall score of 580-677; or IELTS: 6.5 overall with a reading score of 6.5.
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
This course totals 24 credit points, consisting of two 8-credit-point core subjects and one 8-credit-point subject from a specified list.
Part-time students should undertake 4 or 16 credit points a semester.

Course completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90260</td>
<td>Writing subjects</td>
<td>8cp</td>
</tr>
<tr>
<td>STM90813</td>
<td>Core subjects (Editing and Publishing)</td>
<td>16cp</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Course program
Typical course programs are shown below.

Autumn commencing, part time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57046</td>
<td>Professional Editing</td>
<td>8cp</td>
</tr>
<tr>
<td>Spring</td>
<td>57053</td>
<td>Book Publishing and Marketing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points from the following options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>57031</td>
<td>Non-fiction Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57041</td>
<td>Narrative Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57145</td>
<td>Freelance Writing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57046</td>
<td>Professional Editing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points of options

Career options
Career options include positions in book editing and publishing.

Spring commencing, part time

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>57053</td>
<td>Book Publishing and Marketing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 0 credit points from the following options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>57031</td>
<td>Non-fiction Writing</td>
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</tr>
<tr>
<td>57041</td>
<td>Narrative Writing</td>
<td>8cp</td>
</tr>
<tr>
<td>57145</td>
<td>Freelance Writing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>57046</td>
<td>Professional Editing</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Select 8 credit points of options

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Screenwriting (C11066) (see page 436), the Graduate Certificate in Editing and Publishing, the Graduate Diploma in Creative Writing (C06041) (see page 389) and the Master of Arts in Creative Writing (C04109) (see page 324). Students who successfully complete this course and who are admitted to the graduate diploma or master’s course are eligible for credit recognition for completed subjects. To be eligible to articulate into the Master of Arts in Creative Writing (C04109) (see page 324), students must complete at least two postgraduate writing subjects with a distinction grade or higher.

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11106v3 Graduate Certificate in Mental Health Nursing

Award(s): Graduate Certificate in Mental Health Nursing (GradCertMHN)
UAC code: 942835 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is not offered to international students.

Overview
This course is designed to provide registered nurses with the knowledge, expertise and competencies for advanced practice in mental health nursing. Registered nurses wanting to develop and extend their knowledge of mental health nursing practice find this course an effective means of professional and personal development.

Course aims
The course is designed to prepare mental health nurses who:
- have the knowledge, skills and understandings to practise safely and competently in a variety of mental health care settings
- demonstrate an understanding of the experience of the consumer and the ability to work in collaboration with consumers in their care
- have the capacity to work effectively as members of a multidisciplinary team
- critically examine and appraise their own practice and develop and modify their approaches as necessary
- actively contribute to the professional development of others
- value research processes in their day-to-day practice
- are committed to the development of the discipline of mental health nursing.

Career options
Career options include positions in mental health nursing.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.
Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.
Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx
Students should ensure that details of their registration are up-to-date on this register.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who successfully complete a university-approved mental health transition program are eligible to apply for exemption from 92869 Specialty Clinical Practice.

Course duration and attendance
The course is offered on a one-year, part-time basis.
Subjects are offered via on-campus study days and online learning.
Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance is four or five days on campus spread over the semester.

Course structure
Students must complete a total of 24 credit points, comprising four specified subjects.

Course completion requirements
92604 Mental Health Assessment 6cp
92869 Specialty Clinical Practice 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from the UTS Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.uts.edu.au
www.health.uts.edu.au

C11107v7 Graduate Certificate in Health Services Management
Award(s): Graduate Certificate in Health Services Management (GradCertHSM)
UAC code: 942820 (Autumn semester), 945820 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course offers a mid-year intake for local students.
This course is not offered to international students.

Overview
This course is an introduction to health services management and aims to expand students’ knowledge and future career opportunities. The program develops students’ knowledge and skills, which leads to an enhanced capacity to manage health services.
Graduates of this course are exposed to academic and industry leaders who share their experience and knowledge to facilitate insight into the contemporary health service management environment.

Course aims
This course is designed to prepare new, aspiring and middle health managers for roles in health services management in a variety of settings.

Career options
Career options include positions in health authorities, hospitals, primary and community care, aged care services, and other healthcare facilities in the public, private, not-for-profit, government and non-government health sectors.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who do not have an undergraduate degree but who have extensive relevant work experience in a health or human services field may also be considered eligible.
Applicants must have at least a minimum of one year, full-time (or part-time equivalent) experience in a medium to large organisation.
Health or human services experience is preferred. Work experience undertaken in small work settings (e.g. private practice settings with a small number of professionals) or as part of intern requirements are not accepted.
The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.
Subjects are offered via on-campus study. Part-time students usually study two subjects a semester.

Course structure
Students must complete a total of 24 credit points, selecting four of the six subjects offered by UTS: Health.

Course completion requirements
Select 24 credit points from the following options: 24cp
92050 Policy, Power and Politics in Health Care 6cp
92296 Epidemiology and Population Health 6cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
92606 Issues in Australian Health Services 6cp
92887 Organisational Management in Health Care 6cp
92917 Using Health Care Data for Decision Making 6cp
Total 24cp
The recommended program of study is shown below.

**Year 1**

**Autumn semester**
- 92917 Using Health Care Data for Decision Making 6cp
- 92606 Issues in Australian Health Services 6cp

**Spring semester**
- 21720 Human Resource Management 6cp
- 92887 Organisational Management in Health Care 6cp

**Articulation with UTS courses**
This course is part of an articulated program which comprises the Graduate Certificate in Health Services Management, the Graduate Diploma in Health Services Management (C07040) (see page 409), and the Master of Health Services Management (C1107) (see page 326).

**Professional recognition**
Australasian College of Health Service Management (ACHSM)

**Other information**
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Dr Jennifer Bichel-Findlay
Course coordinator
e-mail Jennifer.Bichel-Findlay@uts.edu.au
www.health.uts.edu.au

**C11109v8 Graduate Certificate in Clinical Management**
Award(s): Graduate Certificate in Clinical Management [GradCertCM]
UAC code: 942840 [Autumn semester], 945840 [Spring semester]
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

**Note(s)**
This course is not offered to international students.

**Overview**
This course is designed for health professionals aspiring to management positions which involves the management of clinical services, as well as for those already holding such positions who wish to enhance their professional practice through formal study.

**Course aims**
The broad aims of the course are for students to develop capabilities in the management of clinical services so that they are able to:
- understand the Australian health care environment
- explore and analyse the effects of changes in health care on their work role and environment
- provide leadership to staff providing quality care
- enhance their interpersonal and organisational skills
- enhance interpersonal and organisational skills
- more effectively manage information and resources
- promote an effective organisational culture.

**Career options**
Career options include management positions in hospitals, aged care, rehabilitation and primary care. The enhanced interpersonal and organisational skills graduates acquire in this course enable graduates to effectively manage a unit or division providing direct clinical services and lead it to provide quality care.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

This evidence may include extensive relevant work experience in a health care profession.

Applicants must have at least one year’s full-time equivalent experience in a medium to large organisation. Work experience undertaken in small work settings (e.g. private practice settings with a small number of professionals) or as part of intern requirements are not accepted.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**Applications**

**Course duration and attendance**
The course is offered on a one-year, part-time basis.
Subjects are offered via on-campus study days and online learning.
Part-time students usually study two subjects a semester.

**Course structure**
Students must complete a total of 24 credit points of study, comprising four specified nursing subjects.

**Course completion requirements**
STM90757 Clinical Management 24cp
Total 24cp

**Articulation with UTS courses**
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344) (for registered nurses only).

**Other information**
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.health.uts.edu.au

**C11115v4 Graduate Certificate in Diabetes Education and Management**
Award(s): Graduate Certificate in Diabetes Education and Management [GradCertDiabEdM]
UAC code: 942845 [Autumn semester], 942890 [distance] [Autumn semester]
CRICOS code: 037128A
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

**Note(s)**
This course is not offered to international students.

**Overview**
This course is offered in conjunction with UTS: Education. It develops appropriately qualified students for work as health professionals in the area of diabetes education and management.

Students have strong involvement with academics and clinicians from major teaching hospitals, diabetes centres and Diabetes Australia-NSW or Diabetes Australia-Queensland.

**Career options**
Career options include diabetes educators and managers in a variety of settings.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Previous qualifications must be in a health-related field such as nursing, allied health or medicine.

Applicants must also have at least one year’s full-time professional employment in their health-related discipline, part of which has been in a diabetes-related clinical area. It is assumed that applicants have a basic knowledge of the practice of diabetes education and management. Applicants must also have access to a relevant clinical setting in order to complete supervised clinical experience (applicants need to organise their own placement).

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance

The course is offered on a one-year, part-time basis. It is studied through four distance education subjects, which include two residential workshops in either Sydney or Brisbane.

Course structure

Students must complete a total of 24 credit points of study, comprising three specified UTS: Health subjects and one specified UTS: Education subject.

Course completion requirements

92934 Clinical Management of Diabetes 6cp
92845 Primary Health Care 6cp
015356 Learning in Diabetes Education 6cp
93006 Clinical Practice (Diabetes) 6cp

Total 24cp

Professional recognition

Upon completion of the course, Registered Nurses Div 1 RNs (Vic), Authorised Practising Dieticians, Registered Medical Practitioners, Registered Pharmacists (AACP), (SHPA), Registered Podiatrists and Registered Exercise Physiologists can gain Credentialled Diabetes Educator status authorised by the Australian Diabetes Educators Association (ADEA).

Other information

Further information is available from the UTS Student Centre on:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.health.uts.edu.au

C11116v5 Graduate Certificate in Perioperative Nursing

Award(s): Graduate Certificate in Perioperative Nursing (GradCertN)
UAC code: 742850 (autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note[s]

This course is not offered to international students.

Overview

This course prepares registered nurses to function as perioperative nurses in various health care settings.

Course aims

The course is designed to encourage the development of a perioperative nurse who is able to provide holistic, patient-centred care in a collaborative manner during anaesthesia, surgery and recovery. It promotes a deep understanding of complex perioperative issues as they relate to patient outcomes within a global context.

Career options

Career options include specialty perioperative nursing in day surgery settings, perioperative suites / units and endoscopy suites.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance

The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning. Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.

Course structure

Students are required to complete a total of 24 credit points of study, comprising three specified nursing subjects and one nursing elective (92713 Health Breakdown elective is recommended as this subject can be used to articulate/ progress into Graduate Diploma or Master of Nursing).

There are structured work-based learning opportunities for employees of Northern Sydney Local Health District (NSLHD), Sydney Local Health District (SLHD) and North Shore Private Hospital. These students may undertake a Clinical Accreditation Program (CAP) with these organisations. This is at no cost to participants. Students who successfully complete a CAP are awarded exemption from Specialty Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or complete subject Specialty Practice.

Course completion requirements

Select one of the following:

92869 Speciality Clinical Practice 6cp
STM90489 Clinical Accreditation Program (SLHD) 6cp
STM90490 Clinical Accreditation Program (NSLHD) 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp

Select one of the following:

92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp

Total 24cp

Articulation with UTS courses

This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information

Further information is available from:
- UTS Student Centre
  telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- Marika Jenkins
  Course coordinator
  telephone +61 2 9514 5760
  email Marika.Jenkins@uts.edu.au
- www.health.uts.edu.au
C11117v5 Graduate Certificate in Anaesthetics and Recovery Room Nursing

Award(s): Graduate Certificate in Anaesthetics and Recovery Room Nursing [GradCertN]
UAC code: 942858 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is available for new admissions every second year. The next intake is in 2013.
This course is not offered to international students.

Overview
This course prepares registered nurses to function in an anaesthetic nurse sedationist and recovery room nursing roles in various health care settings.

Course aims
The course promotes a deep understanding of complex anaesthetics and postanaesthesia recovery room unit issues as they relate to patient outcomes. It is designed to encourage the development of an anaesthetics and postanaesthesia recovery room nurse who is able to provide holistic, patient-centred care during anaesthesia and recovery from surgical and procedural interventions, and in a range of traditional and non-traditional settings.

Career options
Career options include specialty anaesthetics and recovery room nursing, and nurse sedationist roles in perioperative settings, endoscopy and day surgery units and other interventional/procedural settings.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have relevant work experience may also be considered eligible.
Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.
Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx
Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 79-93 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.
Subjects are offered via on-campus study days (a three-day workshop each semester) and online learning. Part-time study is usually undertaken at a rate of two subjects a semester.

Course structure
Students must complete a total of 24 credit points, comprising three specified nursing subjects and one nursing elective (92713 Health Breakdown is recommended as this subject can be used to articulate/progress into the Graduate Diploma or Master of Nursing).
There are structured work-based learning opportunities for employees of Northern Sydney Local Health District (NSLHD) and North Shore Private Hospital. These students may undertake a Clinical Accreditation Program (CAP) with these organisations. This is at no cost to participants. Students who successfully complete a CAP and are awarded exemption from subject Specialty Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or do subject Specialty Clinical Practice.

Course completion requirements
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Fundamentals of Postanaesthesia Recovery Nursing 6cp
Select one of the following:
92869 Specialty Clinical Practice 6cp
STM90490 Clinical Accreditation Program (NSLHD) 6cp
Select one of the following:
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Marika Jenkins
Course coordinator
telephone +61 2 9514 5760
email Marika.Jenkins@uts.edu.au
www.health.uts.edu.au

C11118v3 Graduate Certificate in Critical Care Nursing

Award(s): Graduate Certificate in Critical Care Nursing [GradCertN]
UAC code: 942855 (Autumn semester), 945855 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is not offered to international students.

Overview
This course prepares registered nurses to function as critical care nurses in various health care settings. Students develop the specialised skills and knowledge to become critical care nurses and to recognise and support the unique characteristics of the critical care patient population.

Course aims
The course is designed to provide the necessary knowledge, skills and understanding to enable registered nurses to:
• practice safely and competently in the specialty of critical care nursing
• synthesise specialty knowledge, skills and expertise in order to enhance the quality of care for patients and their families
• make appropriate clinical judgments in relation to care of critically ill people
• critically evaluate their practice and incorporate research findings and technologies when appropriate
• develop the ability to actively contribute to the professional development of others
• appropriately counsel and support patients and their families as they deal with their health and lifestyle adjustments
• use research in order to make informed decisions about nursing practice.
Career options
Career options include specialty critical care nursing.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience. Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and supported by online learning. Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days on campus spread over the semester.

Course structure
Students must complete a total of 24 credit points of study, comprising four specified nursing subjects.

There are structured work-based learning opportunities for students who are employees of Northern Sydney Local Health District (NSLHD - Royal North Shore Hospital, Ryde Hospital, Hornsby Private Hospital, Manly Hospital, Mona Vale Hospital), Sydney Local Health District (SLHD - Royal Prince Alfred Hospital, Concord Hospital), Westmead Private Hospital or North Shore Private Hospital. These students may undertake a Clinical Accreditation Program (CAP) with these organisations. This is at no cost to participants. Students who successfully complete a CAP are awarded exemption from subject Specialty Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or do subject Specialty Practice.

Course completion requirements
92919 Complex Critical Care 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92713 Health Breakdown 6cp

Select one of the following:

92869 Specialty Clinical Practice 6cp
STM00489 Clinical Accreditation Program (SLHD) 6cp
STM00490 Clinical Accreditation Program (NSLHD) 6cp

Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.health.uts.edu.au

C11119v3 Graduate Certificate in Neuroscience Nursing

Award(s): Graduate Certificate in Neuroscience Nursing [GradCertN]
UAC code: 942860 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is available for new admissions every second year. The next intake is in 2014.
This course is not offered to international students.

Overview
This course prepares registered nurses to become neuroscience nurses in various health care settings.

Students develop specialised skills and knowledge needed to become neuroscience nurses and learn to recognise and support the unique characteristics of the neuroscience patient population.

Course aims
The course is designed to impart the necessary knowledge, skills and understanding to enable registered nurses to:

• practise safely and competently in the specialty of neuroscience nursing
• synthesise specialty knowledge, skills and expertise in order to enhance the quality of care for patients and their families
• make appropriate clinical judgments in relation to the care of people with neurological problems
• critically evaluate their practice to enhance professional practice
• develop the ability to actively contribute to the professional development of others
• appropriately counsel and support patients and their families as they deal with their health and lifestyle adjustments
• use research in order to make informed decisions about nursing practice.

Career options
Career options include specialty neuroscience nursing.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience. Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with a TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning. Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.

There are structured work-based learning opportunities for students who are employees of Northern Sydney Local Health District (NSLHD). These students may undertake a Clinical Accreditation Program (CAP) with NSLHD. This is at no cost to participants. Students who successfully complete a CAP are awarded exemption from subject Specialty Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or do subject Specialty Practice.

Course completion requirements
92713 Health Breakdown 6cp
Select one of the following:
92869 Specialty Clinical Practice 6cp
92840 Clinical Accreditation Program (NSLHD) 6cp
92920 Neurosciences: Trauma and Cerebrovascular 6cp
92921 Neurosciences: Degenerative and Oncological 6cp
Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.health.uts.edu.au

C11125v3 Graduate Certificate in Dispute Resolution
Award(s): Graduate Certificate in Dispute Resolution (GradCertDispRes)
UAC code: 942403 (Autumn semester), 945403 (Spring semester)
CRICOS code: 032360M
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Dispute Resolution, a first in Australia, focuses on the wide range of non-adversarial dispute resolution processes. A comprehensive range of subjects is available accommodating distinct streams such as commerce, family, community and court-annexed programs.

Dispute resolution at UTS focuses on experiential learning involving a fusion of critical and reflective thinking paradigms with the application of theory in practical, work-based contexts.

The mixture of experience-based learning and formal lectures by professional practitioners gives students a hands-on understanding of the full range of dispute resolution processes from negotiation, through the consensus processes, to decisional theory.

Career options
Career options include arbitrator, managers, negotiator and professionals in a wide range of areas such as health and education, government and industrial relations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who provide evidence of equivalent work experience are also considered.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one semester of full-time or one year of part-time study. The core introductory subject is offered in intensive block mode over several days of attendance at the beginning of semester. The options are taught in intensive block mode over several full days of lectures, workshops and seminars.

Course structure
The course requires completion of a core introductory subject (6 credit points) plus a further three subjects (18 credit points). Subjects are regularly timetabled but not all subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au

Course completion requirements
79771 Dispute Resolution 6cp
Select 18 credit points from the following options: 18cp
77746 Advanced Mediation 6cp
77752 Commercial Arbitration (Domestic) 6cp
77792 Crisis Negotiation 6cp
77761 Dispute Resolution in Commerce 6cp
77760 Family Dispute Resolution 6cp
77751 International Commercial Arbitration 6cp
77745 Negotiation 6cp
77740 Research Paper 6cp
77867 Workplace Dispute Resolution 6cp
77783 International Commercial Dispute Resolution 6cp
77850 Psychology and Dispute Resolution 6cp
78029 Mediation Practice 6cp
78173 Dispute Resolution in Civil Practice 6cp
78138 Facilitation 6cp
Total 24cp

Articulation with UTS courses
Graduate certificate candidates may internally transfer to the Master of Dispute Resolution (C04145) (see page 329). Candidates are not awarded the graduate certificate, rather subjects undertaken within the graduate certificate are credited towards the master’s.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
e-mail law@uts.edu.au

Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
C11128v3 Graduate Certificate in Legal Practice

Overview
The Graduate Certificate in Legal Practice allows students concurrently enrolled in the Bachelor of Laws (C10124) (see page 179) (or combined) degree and who commenced their degree before 2008.

Eligibility for admission does not guarantee offer of a place. Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66.

Eligibility for admission does not guarantee offer of a place.

Industrial training/professional practice
A practical experience work placement is a compulsory and integral component of the course. Practical experience requires students to complete 16 weeks of full-time (or equivalent part-time) practical experience work placement. Students must complete their practical experience work placement within five semesters of enrolling in 75411 Practical Experience. Further information about the practical experience component of the course can be found at: www.law.uts.edu.au/practical

Course program
The standard program of study for students undertaking the graduate certificate on a part-time attendance basis is presented below. Students undertaking the PLT program on a full-time attendance basis attempt all subjects in one semester.

All subjects are timetabled each semester. The current timetable can be found at: http://timetable.uts.edu.au

Part time, Autumn commencing
Year 1
Autumn semester
75412 Legal Skills 6cp
75413 Advocacy 6cp
Spring semester
75411 Practical Experience 0cp
75413 Advocacy 6cp

Part time, Spring commencing
Year 1
Spring semester
75412 Legal Skills 6cp
75413 Advocacy 6cp
Year 2
Autumn semester
75411 Practical Experience 0cp

Professional recognition
This course satisfies the requirements for admission as a lawyer to the Supreme Court of NSW, provided students also complete the UTS Bachelor of Laws (C10124) (see page 179) degree (with optional PLT component).

Other information
Further information for future students is available from:

telephone +61 2 9514 3660
email law@uts.edu.au

Further information for current students is available from:

telephone 1300 ask UTS (1300 273 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C11129v4 Graduate Certificate in International Law
Award(s): Graduate Certificate in International Law (GradCertLaw)
UAC code: 942405 (Autumn semester), 945405 (Spring semester)
CRICOS code: 032350B
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in International Law allows lawyers and other professionals to extend their knowledge and gain expertise in the expanding and dynamic area of international law.

Course aims
The course identifies a range of topics that underpin current and ongoing areas of study in international law, namely:
- multilateral liberalisation of trade in goods and services: GATT 1994, GATS and WTO
- the role of regional trading blocs: NAFTA, ASEAN, EU, CER, MERCOSUR
- exceptions to liberalisation – agriculture, textiles and clothing, sanitary and phyto-sanitary measures, and music and film
- anti-dumping and countervailing duties in a global economy
- foreign investment and the multilateral investment agreement
- regulation of financial markets: the Asian experience
- international commercial arbitration
- dispute resolution and the WTO
- intellectual property and trade: TRIPS.

Career options
Career options include lawyer, or adviser to government or business specialising in international law issues, working within an international NGO, the United Nations or in organisations dedicated to development, lobbyist, activist, and public interest researcher.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who provide evidence of equivalent work experience are also considered. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one semester of full-time or one year of part-time study.

Course structure
Two streams are available within the course:
- Students who hold an undergraduate legal qualification must complete four option subjects (24 credit points).
- Students who hold an undergraduate degree in a discipline other than law must complete one core introductory subject (6 credit points) followed by an additional three subjects (18 credit points).
Students who have completed an undergraduate legal qualification should contact the UTS Student Centre during enrolment if their study plan includes the Non-law graduate entrant stream (STM90013).

Subjects are regularly timetabled but not all subjects listed are offered in any one semester. Timetabled subjects are offered subject to sufficient student interest. The current timetable can be found at: http://timetable.uts.edu.au

Course completion requirements
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>STM90013</td>
<td>Non-law graduate entrant stream 24cp</td>
</tr>
<tr>
<td>STM90012</td>
<td>Law graduate entrant stream 24cp</td>
</tr>
<tr>
<td>Total</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Course diagram

Law graduate entrants

<table>
<thead>
<tr>
<th>Graduate Certificate in International Law</th>
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</thead>
<tbody>
<tr>
<td>4 x 6-credit-point options</td>
</tr>
<tr>
<td>Total 24 credit points</td>
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</table>

Non-law graduate entrants

<table>
<thead>
<tr>
<th>Core subject</th>
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<tbody>
<tr>
<td>1 x 6-credit-point subject</td>
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<tr>
<td>Total 6 credit points</td>
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</table>

Graduate Certificate in International Law

| 3 x 6-credit-point options               |
| Total 18 credit points                   |

Articulation with UTS courses
Subjects undertaken within the Graduate Certificate in International Law are recognised within the Master of International Law (C04149) (see page 331). Students enrolled in the graduate certificate may apply to internally transfer to the master’s. Successful candidates are not awarded the graduate certificate but subjects undertaken within the graduate certificate are applied towards the master’s.

Other information
Further information for future students is available from:
phone +61 2 9514 3660
email law@uts.edu.au

Further information for current students is available from:
phone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11130v4 Graduate Certificate in Trade Mark Law and Practice
Award(s): Graduate Certificate in Trade Mark Law and Practice (GradCertTMLP)
UAC code: 942410 (distance) (Autumn semester), 945410 (distance) (Spring semester)
CRICOS code: 032350B
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: distance

Overview
UTS has established expertise and a reputation for providing courses relevant to the needs of the patent and trade marks professions. This course reflects the range of topics required for registration as a trade marks attorney in Australia under the relevant regulations.
This course provides graduates with an understanding of the principles of the registered trade mark system, the protection of unregistered marks and related forms of protection against misleading or unfair trading conduct in Australia.
The unique feature of this course is that it may be undertaken entirely online, removing the need for students to attend face-to-face classes.

**Career options**
Graduates can seek registration as a trade marks attorney in Australia.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants who have not gained the requisite tertiary qualifications may be provisionally admitted into the program if they can provide evidence of equivalent work experience. Such applicants should also contact the Professional Standards Board to clarify the full requirements for registration as a trade marks attorney.

Admission is at the discretion of the associate dean (teaching and learning).

Articulation with UTS courses
Graduate certificate candidates may apply to internally transfer to the Master of Intellectual Property (C04251) (see page 376). Successful candidates are not awarded the graduate certificate but subjects undertaken within the graduate certificate are applied towards the Master of Industrial Property.

**Professional recognition**
Subject to final board approval, the educational requirements for registration as a patent attorney and trade marks attorney in Australia with the Australian Government’s Professional Standards Board for Patent and Trade Marks Attorneys can be fulfilled by completing this course.

**Other information**
Further information for future students is available from:
- telephone +61 2 9514 3660
- email law@uts.edu.au

Further information for current students is available from:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

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**International students**

**Credit recognition**

UTS may grant successful applicants advanced standing or exemption from one or more subjects, but the Professional Standards Board for Patent and Trade Marks Attorneys (PSB) has no authority to recognise, for the purpose of registration as a patent attorney or trade marks attorney, such exemptions. Students intending to seek registration need to seek exemption from the PSB. Further information is available from:

- The Secretary
- Professional Standards Board for Patent and Trade Marks Attorneys
- PO Box 200
- Woden ACT 2606
- telephone +61 2 6285 1048
- fax +61 2 6285 1048
- email mail.psb@ipaustralia.gov.au
- www.psb.gov.au

Exemptions are generally not granted for subjects not primarily directed to Australian law.

Applicants who have completed a recognised legal process type subject or a degree at an Australian law faculty and have completed an intellectual property subject which cover all major topics can claim an exemption from 77896 Legal Process and Intellectual Property.

**Course duration and attendance**
The course can be completed in a minimum of one semester of full-time or one year of part-time study (timetabling restrictions apply).

The subjects within this course are available online by distance learning and require no on-campus attendance. All lectures, tutorials, course materials and assessments are distributed by a combination of web-based technology and electronic media. Students conduct all communication with the lecturer by electronic means.

**Course structure**

The course requires completion of 24 credit points of core subjects. Subjects are timetabled annually, but not all subjects are offered every semester. The current timetable can be found at:

http://timetable.uts.edu.au

**Course completion requirements**

<table>
<thead>
<tr>
<th>STXM0743 Stream</th>
<th>24cp</th>
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<tr>
<td>Total 24cp</td>
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C11138v5 Graduate Certificate in Information Technology Management

Award(s): Graduate Certificate in Information Technology Management (GradCertInfoTechM)

UAC code: 942614 (Autumn semester), 945614 (Spring semester)

Commonwealth-supported place?: No

Load credit points: 24

Course EFTSL: 0.5

Location: City campus

**Note(s)**

This course is not offered to international students.

**Overview**
This course focuses on the role of technology in the strategic leadership of organisations. It provides a well-balanced selection of subjects, drawn from advanced information technology and business domains, in an integrated program that is relevant to the current and future demands of the IT industry and business organisations. IT professionals who have aspirations to senior IT roles and/or business leadership positions in organisations benefit from this course. Graduates are able to contribute constructively to the effective utilisation of information technology with respect to the strategic leadership of an organisation. IT managers who already have significant levels of experience are challenged by this course and gain new perspectives on the effective leadership of organisations in the digital era.

**Course aims**
The course aims to develop:

- the professional skills necessary for successfully undertaking strategic leadership roles in a variety of organisational contexts, and
- a conceptual and analytical understanding of an organisation’s needs in a dynamic and challenging global knowledge economy.

**Career options**
Graduates can be employed in the full range of organisations - private, public and community sector organisations. They can manage the IT function of such organisations and develop a career path that leads to a senior IT management role.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in information technology or commerce and applicants must have a minimum of five years’ professional work experience in the IT industry, plus some supervisory experience.
Alternatively, applicants require evidence of general and professional qualifications, such as other post-secondary school qualifications that can establish the applicant’s aptitude, knowledge and practical experience, which will satisfy the Faculty Board in Engineering and Information Technology that the applicant possesses the educational preparation and capacity to pursue postgraduate studies, and a minimum of five years' professional work experience in the IT industry, plus some supervisory experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**Course duration and attendance**
The course is offered on a one-year, part-time basis.

**Course structure**
Students must complete 24 credit points of study, made up of three core subjects and one elective.

**Course completion requirements**
- 32553 Leadership and People Management 6cp
- CBK90083 Electives 6cp
- 32007 Strategic Information Technology Investment 6cp

Total 24cp

**Course program**
A typical part-time program for students commencing in Autumn semester is shown below.

**Year 1**
**Autumn semester**
- 32553 Leadership and People Management 6cp
- 32007 Strategic Information Technology Investment 6cp

**Spring semester**
- 32005 Strategic Leadership for Innovation 6cp
- Select 6 credit points of electives 6cp

**Articulation with UTS courses**
This course is part of an articulated program comprising the Graduate Certificate in Information Technology Management, the Graduate Diploma in Information Technology Management (C06060) (see page 391), and the Master of Business in Information Technology Management (C04161) (see page 335).

**Other information**
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

**C11142v6 Graduate Certificate in Information Technology**
Award(s): Graduate Certificate in Information Technology [GradCertInfTech]
UAC code: 942604 (Autumn semester), 945604 (Spring semester)
CRICOS code: 061398A
Commonwealth-supported place?: No
Load credit points: 24
Course ETFSL: 0.5
Location: City campus

**Overview**
This course offers two separate streams: one for those who have little or no knowledge of IT and one for IT professionals.

Stream 1 provides an introduction to information technology for those uncertain of their capabilities in the discipline, or those who wish to gain only a very basic knowledge of the area.

Stream 2 enables those with an IT or related degree to undertake a specialised sequence of subjects in an area not covered in their previous studies.

This course allows IT professionals to update their knowledge and skills in an essential area of IT to assist in career development. This course also provides a basic foundation for those wanting to enter the IT industry and gain basic skills in IT.

**Career options**
Career options include database developer, junior programmer/analyst or business analyst.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

For this course an equivalent degree can be from any discipline (as applicants for this program may apply as a non-IT graduate or an IT graduate).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Credit recognition**
There are no exemptions granted in the Graduate Certificate in Information Technology.

**Course duration and attendance**
The course is offered on a one-semester, full-time or one-year, part-time basis.

**Course structure**
This course comprises 24 credit points of study.

- Stream 1: Students normally take four of the core subjects offered in the Graduate Diploma in Information Technology (C06058) (see page 391) but may, with the approval of the Director, Postgraduate Programs IT, take up to two of the electives offered in the graduate diploma in place of core subjects.
- Stream 2: Subjects are normally taken from the list of elective subjects offered in the Graduate Diploma in Information Technology (C06058) (see page 391).

**Course completion requirements**
Select one of the following:
- ST090695 Core subjects 24cp
- CBK90802 Choice 24cp
- Total 24cp

**Course program**
An example course program is shown below.

**Non-IT graduates**
Year 1
**Autumn semester**
- 32555 Fundamentals of Software Development 6cp
- 32524 LANS and Routing 6cp
- 32557 Enabling Enterprise Information Systems 6cp
- 32606 Database 6cp

**IT graduates**
Year 1
**Autumn semester**
- Select 24 credit points of electives 24cp

**Articulation with UTS courses**
This course is part of an articulated program of study comprising the Graduate Certificate in Information Technology, the Graduate...
Diploma in Information Technology (C06058) (see page 390), the Master of Information Technology (C04157) (see page 331) and the Master of Information Technology (Extended) (C04218) (see page 340).

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11143v3 Graduate Certificate in Interactive Multimedia
Award(s): Graduate Certificate in Interactive Multimedia [GradCertIMM]
UAC code: 942607 [Autumn semester], 945607 [Spring semester]
CRICOS code: 030865B
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
This course is designed for students from a wide variety of disciplines who may or may not already be working in areas of multimedia. It enables students to gain new areas of knowledge or broaden existing areas.

While this program is managed by the Faculty of Engineering and Information Technology, it is a joint program between the Institute for Interactive Media and Learning and a number of teaching faculties. The program is designed to educate the innovators and future leaders of the various professions working in multimedia. Graduates acquire the fundamentals in multimedia, underpinning an up-to-date, flexible set of production skills in their own specialised area.

Course aims
A defining characteristic of multimedia education at UTS is the integration of theory and practice in all of the relevant disciplines and professions. The course aims to develop students' professional skills for direct application in the workplace, while providing a solid overview and understanding of the social, historical and industrial role of multimedia communication technologies. Graduates are prepared for a career in a rapidly growing and changing industry.

Career options
Career options include positions in digital media, the mobile web, information architecture, interaction design, new media, web design, web development and web project management. Various events are organised throughout the year to showcase student work and give students the opportunity to speak with industry professionals, including recruiters.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants without an undergraduate degree require a diploma and considerable relevant professional experience, or substantial senior professional experience.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications
Places in the course are limited and applicants should indicate an informed understanding of how their undergraduate qualifications or work experience fit with their proposed multimedia studies to open up future career directions.

Credit recognition
Given the interdisciplinary focus and teamwork emphasis of this course, credit recognition and subject exemptions are not normally granted for other postgraduate study or work experience.

Course duration and attendance
The course normally takes one semester of full-time or one year of part-time study.

Course structure
The course comprises 24 credit points of study made up of two core subjects and two elective subjects, which may include core subjects for students intending to exit the program at graduate certificate level.

Course completion requirements
Select 12 credit points from the following options:
95563 Digital Media Development Process 6cp
95564 Digital Media Technologies 6cp
95565 Digital Graphics and the Still Image 6cp
Total 24cp

Course program
The following example shows a part-time program commencing in Autumn semester. Elective subjects may be chosen from across the University and must be approved by the multimedia program leader and then the relevant faculty.

Year 1
Autumn semester
Select 12 credit points from the following options:
95563 Digital Media Development Process 6cp
95564 Digital Media Technologies 6cp
95565 Digital Graphics and the Still Image 6cp
Total 12cp

Spring semester
Select 12 credit points of electives  12cp

Articulation with UTS courses
This course is part of an articulated program of study comprising the Graduate Certificate in Interactive Multimedia, the Graduate Diploma in Interactive Multimedia (C07078) (see page 412), and the Master of Interactive Multimedia (C04158) (see page 333).

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
http://mim.iml.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C11145v6 Graduate Certificate in Internetworking

Award(s): Graduate Certificate in Internetworking (GradCertInternetworking)
UAC code: 942611 (Autumn semester), 945611 (Spring semester)
CRICOS code: 06342K
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
This course is intended for computing science, information technology or engineering graduates who wish to learn or extend their knowledge of networking and networking technologies. As students come from a variety of backgrounds, there is a degree of subject choice in the program to meet individual needs.

The Internetworking program provides practical, hands-on learning experience using resources provided by Cisco Systems. The program covers all aspects of the organisational use of networking.

Course aims
The program aims to:
- meet the needs of industry for networking specialists
- retrain IT professionals wishing to move into networking and internetworking
- provide a thorough and practical grounding in networking and network design, administration and management, and
- provide a solid foundation for the writing of networked applications using Unix, Java and WWW technologies.

Career options
Career options include IT/network support, junior systems programmer or other positions in data communications.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications are preferred in computing science, information technology, computer engineering, telecommunications, or a related discipline.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Assumed knowledge
Two years’ experience in networking or in another position in the IT industry is desirable. Applicants without work experience are also considered.

Credit recognition
Applicants may apply for exemptions if they have successfully completed studies of a comparable standard from a recognised university.

There are no exemptions granted for the networking subjects 32524 and 32521 without the successful completion of the challenge test for each of the above. A challenge test is required even for holders of a CCNA or CCNP certification and those who have passed the CCNA curriculum in TAFE Certificate IV and/or Diploma. These challenge tests are always held in the week prior to the commencement of classes.

Course duration and attendance
The course duration is one semester of full-time or one year of part-time study.

Course structure
The course totals 24 credit points of study, made up of four subjects.

Course completion requirements
CBK90747 Internetworking choice 6cp
STM90730 Core subjects 18cp
Total 24cp

Course program
Below is a typical example of a full-time program commencing in Autumn semester.

Year 1
Autumn semester
32118 Mobile Communications and Computing 6cp
32524 LANS and Routing 6cp
32547 UNIX Systems Programming 6cp
CBK90747 Internetworking choice 6cp

Articulation with UTS courses
This course forms part of an articulated program comprising the Graduate Certificate in Internetworking, the Graduate Diploma in Internetworking (C07080) (see page 413), the Master of Science in Internetworking (C04160) (see page 333) and the Master of Science in Internetworking (Extended) (C04224) (see page 341).

Professional recognition
Students can prepare for CCNA (Cisco Certified Network Associate) industry certification.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11190v4 Graduate Certificate in Strategic IT Leadership

Award(s): Graduate Certificate in Strategic IT Leadership (GradCertSITL)
UAC code: 942625 (Autumn semester), 945625 (Spring semester)
CRICOS code: 03427C
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
This course is designed for those who want to develop a broader understanding of the strategic value of technology for business organisations.

Students gain a ‘big picture’ view of the global knowledge economy and the need for a strong understanding of the role of technology in effective business leadership. The course focuses specifically on the strategic value of technology and on the leadership implications thereof for the creative management of intangible assets such as morale, social, knowledge and human capital. On completion of the course, graduates are recognised as having broad technology frames of reference with respect to business leadership in a dynamic global knowledge economy.
Course aims
This course aims to provide graduates with broad strategic leadership frames of reference and knowledge bases. It also alerts business leaders (with or without an IT background) to the increasingly important role that technology plays in business success and its potential for disrupting conventional business models and practices.

Career options
Career options include senior management roles.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in information technology or commerce and applicants must have a minimum of five years’ professional work experience, plus some supervisory experience.

Alternatively, applicants require evidence of general and professional qualifications, such as other post-secondary school qualifications that can establish the applicant’s aptitude, knowledge and practical experience, which will satisfy the Faculty Board in Engineering and Information Technology that the applicant possesses the educational preparation and capacity to pursue postgraduate studies, and a minimum of five years’ professional work experience, plus some supervisory experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-95 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Exemption from subjects in the program is not normally given on the basis of previous study or work experience.

Course duration and attendance
The course is completed in one year on a part-time basis only.

Course structure
The course comprises 24 credit points of study, made up of four core subjects that can be taken in any order subject to timetable availability.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>32007</td>
<td>Strategic Information Technology Investment</td>
<td>6cp</td>
</tr>
<tr>
<td>32953</td>
<td>Strategic Leadership for Innovation</td>
<td>6cp</td>
</tr>
<tr>
<td>32533</td>
<td>Leadership and People Management</td>
<td>6cp</td>
</tr>
<tr>
<td>32703</td>
<td>Information Technology Strategy</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp

Further study at UTS
Graduates can enrol in a range of graduate diploma or master’s-level courses after completing the certificate. The most appropriate of these would be the Master of Business in IT Management (C04161) (see page 335) or a Master of Business Administration (C04018) (see page 303).

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11192v1 Graduate Certificate in Information Technology Project Management

Award(s): Graduate Certificate in Information Technology Project Management (GradCertITPM)

UAC code: 942631 (Autumn semester), 945631 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Notes
This course is not offered to international students.

Overview
This course provides advanced professional studies in IT project management.

Students gain an understanding of the business context and develop conceptual and analytical approaches to IT project management. Graduates of this course are well placed to move into a project management role.

Course aims
The course aims to:

• explain the business context and technical developments shaping contemporary IT project management
• develop knowledge and skills in IT project management processes
• develop conceptual and analytical approaches to IT project management, and
• develop theoretical and practical competencies in technical and people management.

Career options
Career options include positions in project management.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications should normally be in computing/information technology or a related field. If the previous qualification is not in a relevant field, applicants also require a graduate diploma in computing/information technology (or related discipline) from a recognised Australian university and/or relevant work experience.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-95 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
Students complete 24 credit points of study consisting of two core subjects and two elective options from CBK90770.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>32541</td>
<td>Project Management</td>
<td>6cp</td>
</tr>
<tr>
<td>32603</td>
<td>Systems Quality Management</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90770 Options</td>
<td>12cp</td>
<td></td>
</tr>
</tbody>
</table>

Total 24cp
Course program
A typical part-time program for students commencing in Autumn semester is shown below.

Year 1

**Autumn semester**
- 32541 Project Management 6cp
- 32603 Systems Quality Management 6cp

**Spring semester**
- Select 12 credit points of options 12cp

Articulation with UTS courses
The course articulates with the Master of Information Technology (C04157) (see page 331) and the Master of Business in Information Technology Management (C04161) (see page 333) depending on the student’s professional experience.

Other information
Further information is available from:
Building 10 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11194v1 Graduate Certificate in Children’s Nursing

Award(s): Graduate Certificate in Children’s Nursing (GradCertN)
UAC code: 942870 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is not offered to international students.

Overview
The course has been designed to provide registered nurses with the skills and knowledge required for a specialist role in children’s nursing. It develops and extends students’ knowledge of children’s nursing practice and management. It is also an effective means of professional and personal development.

Course aims
The course aims to develop the knowledge, skills and understanding required to practise safely and competently in a variety of children’s nursing settings. Students develop this understanding through hospital and community paediatric care settings.

Career options
Graduates are well equipped to work as part of a multidisciplinary team, and are able to appraise and develop their own practice and contribute to the professional development of others.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience. Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx
Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning. Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.

There are structured work-based learning opportunities for students who are employees of the Sydney Children’s Hospital Network (Randwick and Westmead campuses). These students may undertake a Clinical Accreditation Program (CAP) with these organisations. This is at no cost to participants. Students who successfully complete a CAP are awarded exemption from subject Speciality Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or do subject Specialty Practice.

Course completion requirements

92713 Health Breakdown 6cp
92869 Speciality Clinical Practice 6cp
92878 Care of the Child in Illness and Disability 6cp
92902 Care of the Acutely Ill Child 6cp
Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Janet Green
Course coordinator
email Janet.Green@uts.edu.au
www.health.uts.edu.au

C11195v1 Graduate Certificate in Clinical Teaching

Award(s): Graduate Certificate in Clinical Teaching (GradCertN)
UAC code: 942875 (Autumn semester), 945875 (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is not offered to international students.

Overview
This course is designed to provide registered nurses and midwives with the skills to meet the increased demands to deliver quality teaching in clinical settings. Nurses and midwives engage in clinical teaching at many different levels: with students and new graduates, in orientation programs, and with communities through health promotion activities. Notwithstanding this diversity, the principles of adult learning apply to all.

Students have the opportunity to plan, develop, implement and evaluate a program of clinical education within their own practice area. This course provides a portable qualification and highly sought-after skills.
Course aims
This course aims to ensure that graduates are able to plan effective programs in diverse clinical settings for a variety of learners.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse or midwife in Australia. Registered nurses or midwives who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have one year of post-registration clinical experience.

Students’ current nursing/midwifery registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
Students must complete a total of 24 credit points, comprising three specified nursing subjects and one nursing elective.

Course completion requirements
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>92713</td>
<td>Health Breakdown</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90056</td>
<td>Nursing subjects (PG)</td>
<td>6cp</td>
</tr>
<tr>
<td>92869</td>
<td>Specialty Clinical Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>92848</td>
<td>Facilitation of Clinical Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>92607</td>
<td>Education for Practice Development</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344) (for registered nurses only).

Other information
Further information is available from the UTS Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- Janet Green
- Course coordinator
- email Janet.Green@uts.edu.au
- www.health.uts.edu.au

C11196v1 Graduate Certificate in Neonatal Nursing
Award(s): Graduate Certificate in Neonatal Nursing [GradCertN]
UAC code: 942878 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is available for new admissions every second year. The next intake is in 2013.

This course is not offered to international students.

Overview
The course has been designed to give registered nurses the skills and knowledge for a specialist role in neonatal nursing. It develops and extends knowledge of neonatal nursing practice and management, and is also an effective means of professional and personal development.

Course aims
The course aims to develop the knowledge, skills and understanding needed to practise safely and competently in a variety of neonatal nursing settings, including the care of both sick and healthy infants.

Career options
Graduates are well equipped to work within a multidisciplinary team, and are able to appraise and develop their own practice and contribute to the professional development of others.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning.

Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.

Course completion requirements

<table>
<thead>
<tr>
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<th>Credit Points</th>
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<td>92713</td>
<td>Health Breakdown</td>
<td>6cp</td>
</tr>
<tr>
<td>92869</td>
<td>Specialty Clinical Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>92871</td>
<td>Perinatal Development</td>
<td>6cp</td>
</tr>
<tr>
<td>92895</td>
<td>Issues in Neonatal Care</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp

Career options
Graduates are well equipped to work within a multidisciplinary team, and are able to appraise and develop their own practice and contribute to the professional development of others.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning.

Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.

Course completion requirements

<table>
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<tr>
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<td>Health Breakdown</td>
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<td>6cp</td>
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<tr>
<td>92871</td>
<td>Perinatal Development</td>
<td>6cp</td>
</tr>
<tr>
<td>92895</td>
<td>Issues in Neonatal Care</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp

Career options
Graduates are well equipped to work within a multidisciplinary team, and are able to appraise and develop their own practice and contribute to the professional development of others.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days and online learning.

Part-time study is usually undertaken at a rate of two subjects a semester. The normal attendance per subject is four full days spread over the semester.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>92895</td>
<td>Issues in Neonatal Care</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Total 24cp

Career options
Graduates are well equipped to work within a multidisciplinary team, and are able to appraise and develop their own practice and contribute to the professional development of others.
Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Janet Green
Course coordinator
email Janet.Green@uts.edu.au
www.health.uts.edu.au

C11198v2 Graduate Certificate in Human Resource Management
Award(s): Graduate Certificate in Human Resource Management (GradCertHRM)
CRICOS code: 05527BD
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Human Resource Management introduces participants to knowledge and experiences in the areas of industrial relations and human resource management.
The course acknowledges that while the personnel and industrial functions are sometimes separately exercised within organisations, each has a pervasive effect on the other.

Course aims
The Graduate Certificate in Human Resource Management provides participants with the opportunity to study at a professional level, to improve the quality of their strategic management skills.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course duration is one semester of full-time or one year of part-time study.

Course structure
The course comprises 24 credit points of core subjects.

C11199v3 Graduate Certificate in Operations and Supply Chain Management
Award(s): Graduate Certificate in Operations and Supply Chain Management (GradCertOSCM)
CRICOS code: 055277E
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Operations and Supply Chain Management provides a solid introduction to business operations management for those wishing to gain some experience in this area.

Course aims
The course introduces participants to the nature and contribution of supply chain and operational management functions in the organisational context.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
If the previous qualification is not in a related field, applicants require a minimum of two years' relevant work experience. Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Course duration and attendance
The course is one semester of full-time or one year of part-time study.

Course structure
The course comprises 24 credit points of core subjects.

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90732</td>
<td>Core subjects</td>
<td>24cp</td>
</tr>
</tbody>
</table>

Course program
The core subjects are shown below.

Core subjects
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21741</td>
<td>Managing Operations</td>
<td>6cp</td>
</tr>
<tr>
<td>21743</td>
<td>Business Excellence</td>
<td>6cp</td>
</tr>
<tr>
<td>21779</td>
<td>Management Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>21877</td>
<td>Strategic Procurement</td>
<td>6cp</td>
</tr>
<tr>
<td>21797</td>
<td>Strategic Supply Chain Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Operations and Supply Chain Management, the Graduate Diploma in Operations and Supply Chain Management (C07112) (see page 415) and the Master of Business in Operations and Supply Chain Management (C04228) (see page 342).

Other information
Further information is available from UTS: Business on:
- telephone +61 2 9514 3660
- email business@uts.edu.au
- www.business.uts.edu.au/gsb

C11200v2 Graduate Certificate in Child and Family Health Nursing
Award(s): Graduate Certificate in Child and Family Health Nursing [GradCertN]
UAC code: 942880 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course includes a compulsory clinical practice component (see below) to be undertaken after the block teaching periods.
This course is not offered to international students.

Overview
This course is offered as a joint initiative between UTS: Health and Tresillian Family Care Centres.
Child and family health nurses work in partnership with parents as they learn the skills of parenting and caring for the infant and growing child. The primary health care role of the child and family health nurse includes health teaching with parents, health promotion in the community, group work and counselling for parents and caregivers, and health surveillance of infants and children.
Applicants do not need to be employees of Tresillian, nor do they need to be concurrently employed in child and family health services.
The course prepares registered nurses for beginning practice in the clinical nursing specialty of child and family health.

Course aims
The program of study is designed to build on nursing knowledge and skills to develop capacity to work in a primary health care setting with young children and their families. The comprehensive study program focuses on infant care and child health, and the promotion of maternal and family health and wellbeing. The accompanying clinical experience program provides placements in community child and family health services as well as Tresillian Family Care Centres.

Career options
Career options include positions in primary health care services, such as early childhood health or community health centres, secondary level services in family care centres or breastfeeding clinics for mothers and babies, and tertiary services such as those offered by Tresillian or Karitane.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but who have recent relevant work experience may also be eligible to apply. Such applicants must present evidence of the capacity to undertake tertiary study.
Applicants must have one year of post-registration clinical experience.

Students’ current nursing registration will be confirmed via the National Register of Practitioners at:
Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C, or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
Students must complete a total of 24 credit points, comprising four specified nursing subjects.
The course is offered as a mix of face-to-face teaching sessions and web-based learning through UTSOnline. There are 10 days of face-to-face teaching over the duration of the year requiring attendance on campus. These are presented as four workshops of two or three days each.
Dates for 2013 are:
- 18–20 February
- 6–7 May
- 22–24 July
- 28–29 October

The remainder of the learning is in web-supported distance mode.

Industrial training/professional practice
Students are required to undertake a clinical practicum to consolidate their learning and introduce them to child and family health nursing practice. The clinical program offers up to 160 hours of experience:
- 80 hours in a child and family health service clinical facility (compulsory)
- 40 hours as fieldwork undertaken independently (compulsory)
- 40 hours arranged to suit the learning needs of individual students.

Where possible, students are placed in child and family health services in their own locality.
Dates for 2013 are:
- Autumn semester: 2–12 April or 13–24 May
- Spring semester: 2–20 September

Course completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>92613</td>
<td>Principles of Child and Family Health Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92614</td>
<td>Child and Family Health Nursing 1</td>
<td>6cp</td>
</tr>
<tr>
<td>92615</td>
<td>Child and Family Health Nursing 2</td>
<td>6cp</td>
</tr>
<tr>
<td>92620</td>
<td>Family and Community Health Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344) (for registered nurses only).
Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Nicola Brown
Course coordinator
telephone +61 2 9514 4915
e-mail Nicola.Brown@uts.edu.au
www.health.uts.edu.au

C11201v1 Graduate Certificate in Acute Care Nursing
Award(s): Graduate Certificate in Acute Care Nursing (GradCertN)
UAC code: 942885 (Autumn semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: Kuring-gai campus

Note(s)
This course is not offered to international students.
Overview
This course provides registered nurses with the knowledge and skills for a specialist role as an advanced acute care nurse. The course helps students to critically evaluate their practice and incorporate research findings and technologies as appropriate. Students study topics that reflect health phenomena that are common across acute care illnesses requiring medical and/or surgical intervention, as well as the principles of managing patients who become acutely ill and unstable.

Students learn to recognise and support the unique characteristics of the acute care patient population and are able to practise safely and competently as acute care nurses. The knowledge, skills and expertise gained enable students to enhance the quality of care for patients and their families. Students also develop skills to actively contribute to the professional development of others and use research in order to make informed decisions about nursing practice.

Career options
Career options include specialty acute care nursing in a wide range of clinical settings.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must hold current registration as a nurse in Australia. Registered nurses who do not have an undergraduate diploma or degree but do have recent relevant work experience and can demonstrate the capacity to undertake tertiary study may also be considered eligible.

Applicants must have concurrent employment in, or access to, the area of study and one year of post-registration clinical experience. Students' current nursing registration will be confirmed via the National Register of Practitioners at: www.ahpra.gov.au/Registration/Registers-of-Practitioners.aspx

Students should ensure that details of their registration are up-to-date on this register.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Subjects are offered via on-campus study days, workshops in a high-fidelity simulation laboratory and online learning. Part-time study is usually undertaken at the rate of two subjects a semester. The normal attendance per subject is four full days on campus spread over the semester.

Course structure
Students are required to complete a total of 24 credit points of study, comprising four specified nursing subjects.

There are structured work-based learning opportunities for students who are employees of Northern Sydney Local Health District (NSLHD) or Concord Hospital. These students may undertake a Clinical Accreditation Program (CAP) with these organisations. This is at no cost to participants. Students who successfully complete a CAP are awarded exemption from subject Specialty Clinical Practice. If students change their sub-major they may need to redo a CAP related to the new sub-major or do subject Specialty Practice.

Course completion requirements
92713 Health Breakdown 6cp
92869 Specialty Clinical Practice 6cp
92616 Core Concepts in Acute Care Nursing 6cp
92617 Early Interventions in Acute Care Nursing 6cp
Total 24cp

Articulation with UTS courses
This course articulates with the Graduate Diploma in Nursing (C07044) (see page 408) and the Master of Nursing (C04228) (see page 344).

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Michelle Kelly
Course coordinator
telephone +61 2 9514 4815
e-mail Michelle.Kelly@uts.edu.au
www.health.uts.edu.au

C11204v1 Graduate Certificate in Development Assessment
Award(s): Graduate Certificate in Development Assessment (GradCertDevAssmnt)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.
Overview
Development assessment has become one of local government’s most important activities. People from a wide range of professional and technical backgrounds are working in development assessment, but many lack specialist training in the field. To meet differing individual needs, the UTS Centre for Local Government has introduced a unique Graduate Certificate in Development Assessment that incorporates specialised professional development and technical subjects.

The cornerstone of this course is its flexibility. It allows participants to prepare a personal study plan that matches the specific requirements of their work, career and other commitments. Most subjects can be studied through intensive block mode and, in some cases, by distance or workplace learning. Students may apply for credit for relevant professional development courses undertaken at UTS or with another institution.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Course aims
The course aims to provide students with:
- a sound understanding of principles and practice of development assessment
- an appreciation of the wider context of planning and assessment systems in local government
- knowledge and skills in dealing with different types of applications for development and building approvals, including the ability to identify key factors to be taken into account and broader strategic issues
- enhanced knowledge and skills in selected areas of development assessment, and
- the capacity to undertake further study and professional development.

Career options
The course is designed to provide skills and knowledge necessary to enable students to carry out assessment of building and development proposals with a high level of expertise, to facilitate subsequent accreditation as Certifiers and Principal Certifying Authorities under NSW legislation and to enhance learning and study skills for ongoing education and professional development.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications must be in architecture, building or planning. If the previous qualification is not in one of these fields, applicants require a TAFE Certificate IV in Planning or the Statement of Attainment in Building Assessment. In some cases, applicants should have two years’ work experience in architecture, building, planning or local government.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who have completed relevant previous studies may apply to the course coordinator for credit recognition.

Course duration and attendance
The course may be completed on a two-year, part-time basis, with students undertaking one subject a semester, or on a one-year, part-time basis, with students undertaking two subjects a semester.

Course structure
The course consists of 24 credit points, made up of four subjects.

Course completion requirements
- CBK90560 Development Assessment core choice 12cp
- CBK90561 Development Assessment elective choice 12cp
- Total 24cp

Further study at UTS
Graduates may apply for admission to the Graduate Diploma in Local Government Management (C06033) (see page 387) and request credit recognition for relevant subjects studied in this course.

Other information
Further information is available from:
Gabrielle Watterson
Administration Officer
telephone +61 2 9514 1659
fax +61 2 9514 2274
e-mail Gabrielle.Watterson@uts.edu.au
www.cgl.uts.edu.au

C11206v3 Graduate Certificate in Professional Accounting
Award(s): Graduate Certificate in Professional Accounting (GradCertProfAcc)
CRICOS code: 061284M
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Professional Accounting is a four-subject introductory course designed to provide a general understanding of accounting and related areas of business study. It provides foundation knowledge in the areas of accounting, finance, economics and law.

This course is designed for students who:
- do not have an undergraduate background in accounting and who wish to further their business knowledge, or
- have extensive business experience but lack the formal qualifications for direct entry to the master’s programs in professional accounting, or
- want to complete an introductory course in accounting and related fields and want to prove their ability to undertake postgraduate study and attain postgraduate qualifications.

As this course articulates into the master’s programs in professional accounting, this enables students who do not possess formal undergraduate qualifications, including TAFE diplomas, to acquire the relevant academic qualification for membership of CPA Australia, the Institute of Chartered Accountants in Australia (ICAA) and the Institute of Public Accountants (IPA).

Course aims
The course comprises a mix of accounting, finance and related subjects which collectively provide a range of essential business skills and knowledge that are necessary for managerial level employment in today’s dynamic business environment.

Career options
Career options include management-level positions in industry or government, as well as not-for-profit organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants without a degree require eight years' full-time relevant work experience and evidence of a general capacity to undertake tertiary education.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course may be completed in one semester of full-time or one year of part-time study.

Classes are offered over three teaching periods each year (namely Autumn and Spring semesters, and Summer session). Not all subjects are available in Summer session.

In most cases, subjects are offered on the basis of one three-hour lecture per week over a 13-week period, however, certain subjects may be delivered in intensive mode and completed over a shorter time period.
Course structure
The course totals 24 credit points, made up of four core subjects.

Course completion requirements
22747 Accounting for Managerial Decisions 6cp
25742 Financial Management 6cp
79708 Contemporary Business Law 6cp
23706 Economics for Management 6cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Professional Accounting, the Master of Professional Accounting (C04238) (see page 356) and the Master of Professional Accounting Extended (C04237) (see page 355).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C11208v1 Graduate Certificate in Executive Business Administration
Award(s): Graduate Certificate in Executive Business Administration (GradCertExecBusAdmin)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
The Graduate Certificate in Executive Business Administration provides foundation skills used in the management of a business unit or enterprise for non-graduates who have at least eight years of relevant business experience.

Course aims
General management skills are developed to provide a knowledge base in the areas of leadership, strategic thinking, business planning, decision-making tools, organisational and group dynamics, effective communication and accounting.

Career options
Career options include management-level positions in industry or government.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants also require five years’ relevant work experience. Applicants without a degree require eight years’ full-time relevant work experience and an ability to be able to successfully undertake postgraduate business studies as determined by the MBA director. Applicants may be required to attend an interview as part of the admission process.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course can be completed in 0.5 years, on a full-time basis.

Course structure
The course comprises 24 credit points of study made up of three subjects chosen from a group of four.

Course completion requirements
Select 24 credit points from the following options: 24cp
27800 Applied Leadership and Strategy 8cp
25841 Decision Making Tools 8cp
21875 Organisational Behaviour in Practice 8cp
22814 Accounting Information for Managers 8cp
Total 24cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Executive Business Administration and the Executive Master of Business Administration (C04031) (see page 305).

Other information
Further information is available from UTS: Business on:
telephone +61 2 9514 3660
email business@uts.edu.au
www.business.uts.edu.au/pg

C11210v1 Graduate Certificate in Mathematics
Award(s): Graduate Certificate in Mathematics (GradCertMath)
UAC code: 942743 (Autumn semester), 945743 (Spring semester)
CRICOS code: 06534D
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Mathematics is a four-subject course comprising undergraduate and/or honours-level subjects. The flexible course structure allows study programs designed to suit different university graduates; from mathematicians who need to refresh or deepen their knowledge in a certain mathematical discipline, to holders of business, engineering or science bachelor’s degrees who need a mathematical foundation for further studies.
The course is recommended for those with insufficient mathematics in their bachelor’s degree who wish to meet the admission requirements of the Graduate Diploma in Mathematics and Statistics for Business and Finance (C06097) (see page 393).

Course aims
The course aims to provide undergraduate graduates with access to training and retraining in mathematics and statistics with the aim to allow students to focus on particular mathematical topics rather than on broader areas of mathematics.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Credit recognition
No exemptions are granted as credit recognition.

Course duration and attendance
An applicant may enrol in this course either on a full-time or part-time basis. As a guide, minimum full-time attendance is one semester of study and part-time attendance is one year of study. The possibility
of full-time study and the duration of the course depend on the subjects chosen and their availability. Applicants should be aware that subjects may require attendance at daytime classes. The current timetable is available at:
http://timetable.uts.edu.au

Course structure
Students are required to complete 24 credit points, comprising four subjects offered by the Department of Mathematical Sciences. The subjects are to be chosen from the list of subjects (options) below offered by the department.

The availability of the subjects in this program is shown with the subject descriptions in this handbook. Many subjects offered by the Department of Mathematical Sciences have prerequisites. It is the student’s responsibility to check that they have the required knowledge specified by these prerequisites. Students are strongly advised not to enrol in any subject if they do not have knowledge equivalent to the subject’s prerequisites.

Course completion requirements
Select 24 credit points from the following options: 24cp

35100 Introduction to Basic Research Methods 6cp
35101 Introduction to Linear Dynamical Systems 6cp
35102 Introduction to Analysis and Multivariable Calculus 6cp
35111 Applications of Discrete Mathematics 6cp
35140 Introduction to Quantitative Management 6cp
35151 Introduction to Statistics 6cp
35212 Computational Linear Algebra 6cp
35231 Differential Equations 6cp
35232 Advanced Calculus 6cp
35241 Optimisation in Quantitative Management 6cp
35252 Mathematical Statistics 6cp
35255 Forensic Statistics 6cp
35322 Advanced Analysis 6cp
35335 Mathematical Methods 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35353 Regression Analysis 6cp
35355 Quality Control 6cp
35356 Design and Analysis of Experiments 6cp
35361 Stochastic Processes 6cp
35363 Stochastic Models 6cp
35383 High Performance Computing 6cp
35391 Seminar (Mathematics) 6cp
35393 Seminar (Statistics) 6cp
35457 Multivariate Statistics 6cp
35466 Advanced Stochastic Processes 6cp
35472 Honours Seminar 1 6cp
35473 Honours Seminar 2 6cp
35474 Honours Seminar 3 6cp
35475 Honours Seminar 4 6cp
Total 24cp

Transfer between UTS courses
Students enrolled in this program are eligible to apply to transfer to the Graduate Diploma in Mathematics and Statistics for Business and Finance (C06997) (see page 393) provided they satisfy the admission criteria of the graduate diploma program. This allows students who do not have the mathematical knowledge required for admission to the graduate diploma to complete the necessary subjects as a part of the graduate certificate program and then to transfer to the Graduate Diploma in Mathematics and Statistics for Business and Finance (C06997) (see page 393).

Further study at UTS
Student who complete this course can enrol in the Graduate Diploma in Mathematics and Statistics for Business and Finance (C06997) (see page 393) with exemption from up to two core subjects of the graduate diploma program provided these subjects were completed as a part of the graduate certificate.

Other information
Further information is available from the UTS Student Centre on:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
**Industrial training/professional practice**

Applicants should note that in order to gain admission as a lawyer of the Supreme Court of NSW they may also be required to undertake a course in practical legal training, such as the UTS Practical Legal Training Program.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Load Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>72037</td>
<td>Real Property</td>
<td>8cp</td>
</tr>
<tr>
<td>75016</td>
<td>Australian Constitutional Law</td>
<td>8cp</td>
</tr>
<tr>
<td>75017</td>
<td>Administrative Law</td>
<td>8cp</td>
</tr>
<tr>
<td>75420</td>
<td>Ethics and Professional Conduct</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Total 30cp**

**Professional recognition**

This course may satisfy the requirements for admission to the Supreme Court of NSW. The Legal Profession Admission Board may recognise subjects attempted within this course. Applicants are advised to obtain written confirmation of the LPAB in recognition of subjects attempted within this course prior to enrolling.

**Other information**

Further information for future students is available from:

- telephone +61 2 9514 3660
- email law@uts.edu.au

Further information for current students is available from:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

**C11212v1 Graduate Certificate in Architecture**

**Award(s):** Graduate Certificate in Architecture (GradCertArch)

**UAC code:** 942116 (Autumn semester), 945116 (Spring semester)

**CRICOS code:** 065843G

**Commonwealth-supported place?:** No

**Load credit points:** 24

**Course EFTSL:** 0.5

**Location:** City campus

**Overview**

This course is a tailored bridging course that provides a pathway into the Master of Advanced Architecture (C04240) (see page 359). It provides new skills and knowledge for students who have obtained professional qualifications prior to the introduction of digital software for design and documentation in architectural education (prior to 2000).

This is a highly flexible course that enables specialisation in either urban design or design technologies. Each student has a tailored program of architectural design and architectural practice subjects, based on their needs and experience. The course equips graduates with skills of entrepreneurship, marketing, business and management necessary for leadership in the profession.

**Course aims**

Through the core architectural design studio subjects, graduates are equipped with strategic thinking, spatial organisation and visual design skills, and develop further their verbal and written communication abilities. Project-based studio subjects explore research, design concepts, implementation strategies and presentation techniques. Through the core professional practice subjects, students develop their knowledge of all aspects of industry and practice management, furthering their capacity for leadership in the profession, locally and internationally.

**Career options**

Career options are focused on leading design and technical innovation roles in architectural and urban design practice.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants require a professional entry degree of five-years, full-time or equivalent from an accredited program in architecture or a four-year, full-time or equivalent degree from an accredited program in landscape architecture.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, Internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Applications**

Applicants must submit a portfolio of work demonstrating their design skills for examination in addition to a statement of interest in the course.

**Course duration and attendance**

The course is offered on a one-semester, full-time or part-time equivalent basis.

**Course structure**

The course totals 24 credit points of selected Master of Architecture subjects comprising one 12-credit-point architectural design subject, one 6-credit-point architectural practice subject and one 6-credit-point elective.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Load Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90625</td>
<td>Architectural Design</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90626</td>
<td>Architectural Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90628</td>
<td>Electives</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90233</td>
<td>Electives</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Total 24cp**

**Further study at UTS**

This course is a pathway into the Master of Advanced Architecture (C04240) (see page 359).

**Other information**

Further information is available from the Building 6 Student Centre on:

- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au
- www.dab.uts.edu.au

**C11215v1 Graduate Certificate in Local Government Leadership**

**Award(s):** Graduate Certificate in Local Government Leadership (GradCertLGLead)

**Commonwealth-supported place?:** No

**Load credit points:** 24

**Course EFTSL:** 0.5

**Location:** City campus

**Note(s)**

This course is not offered to international students.

**Overview**

Aspiring local government leaders must have a high level of professional expertise together with a broad range of leadership skills and a sound understanding of the special characteristics of local government.

The course is tailored to the local government environment and allows aspiring leaders to develop understanding and capabilities necessary for leadership in the public sector. There is a particular focus on the need for local government leaders to understand and...
demonstrate commitment to the production of ‘public value’ (Moore 1995); outcomes that are truly valued in the community. The course offers the opportunity to undertake an education program that responds to individual needs as well as those in the workplace and the broader community. Subjects involve intensive block mode workshops, workplace action learning, self-directed study, scenario-based challenges and a real-life community leadership project.

Course aims
The course aims to provide students with knowledge, skills and capabilities and practices of local government leadership, with particular reference to their own organisation and community. Students also develop the learning skills that allow them to continue their own professional development through short courses or further academic study.

Career options
Career options include local government manager in councils.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who have completed relevant previous studies may apply to the course coordinator for credit recognition.

Course duration and attendance
The course may be completed on a two-year, part-time basis, with students undertaking one subject a semester, or on a one-year, part-time basis, with students undertaking two subjects a semester.

Course structure
The course totals 24 credit points, made up of four subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>15610</td>
<td>Local Government Leadership: Personal and Professional Skills</td>
<td>6cp</td>
</tr>
<tr>
<td>15618</td>
<td>New Perspectives in Local Government Leadership</td>
<td>6cp</td>
</tr>
<tr>
<td>15616</td>
<td>Community Leadership Project</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 6 credit points from the following options:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15617</td>
<td>Team Building and Leadership</td>
<td>6cp</td>
</tr>
<tr>
<td>15312</td>
<td>Communication and Critical Thinking</td>
<td>6cp</td>
</tr>
<tr>
<td>15326</td>
<td>Project Management Practicum</td>
<td>6cp</td>
</tr>
<tr>
<td>15346</td>
<td>Governance and Leadership of Project Management</td>
<td>6cp</td>
</tr>
<tr>
<td>15145</td>
<td>Development Negotiation</td>
<td>6cp</td>
</tr>
<tr>
<td>15606</td>
<td>Vocational Competencies 1</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other information
Further information is available from:
Gabrielle Watterson
Administration Officer
telephone +61 2 9514 1659
fax +61 2 9514 2274
email Gabrielle.Watterson@uts.edu.au
www.clg.uts.edu.au

C11216v1 Graduate Certificate in Science

Overview
The Graduate Certificate in Science is designed to provide an opportunity for working scientists to gain generic professional knowledge and skills as well as to extend and update their knowledge in line with recent advances in science. The course enhances career prospects by providing opportunities to extend knowledge beyond a first degree.

Career options
The course provides a backbone of skills important to a professional scientist; be they engaged in research, science business, industries or government organisations.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Eligibility for admission does not guarantee offer of a place.

Credit recognition
Students who have completed relevant previous studies may apply to the course coordinator for credit recognition.

Course duration and attendance
The course is offered on a one-semester, full-time or one-year, part-time basis.

Course structure
The course requires 24 credit points of study, with 12 credit points from a choice of specified science subjects.

Course completion requirements

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90642</td>
<td>Elective</td>
<td>12cp</td>
</tr>
<tr>
<td>CBK90648</td>
<td>Professional stream choice</td>
<td>12cp</td>
</tr>
<tr>
<td>Total 24cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other information
Further information is available from:
Science Academic Administration Office
telephone +61 2 9514 9985
email Science.admin@uts.edu.au
or
Building 6 Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Overview
Emerging as a critical media and legal specialisation, communications law at UTS offers an opportunity for non-law as well as law graduates to develop an understanding and demonstrate their expertise as media professionals and commentators, policy makers and lawyers, managers and researchers in this important area.

Students are exposed to key issues within the field such as: the roll-out of the national broadband network; cyber-security; legal perspectives of the internet; the role of law and regulation in communications, media and entertainment; and the relationship of intellectual property and technology.

Career options
Career options exist for non-law professionals to enhance prospects as communications policy advisors, editorial and management positions, online/social media consultants, lobbyists, researchers for public interest groups and industry commentators. Practising lawyers can expand their legal specialisations in areas including communications law, intellectual property, media and entertainment law, telecommunications law, technology law and corporate law.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course can be completed in a minimum of one semester of full-time or one year of part-time study.

Course structure
Two streams are available within the course.
• Students who hold an undergraduate legal qualification must complete three option subjects (24 credit points).
• Students who hold an undergraduate degree in a discipline other than law must complete one core introductory subject (8 credit points) followed by an additional two subjects (16 credit points).

Students who have completed an undergraduate legal qualification should contact the UTS Student Centre during enrolment if their study plan includes the Non-law graduate entrance stream (STM90545).

Course completion requirements
Select one of the following:
- STM90545 Non-law graduate entrance stream 24cp
- STM90544 Law graduate entrance stream 24cp

C11217v1 Graduate Certificate in Communications Law
Award(s): Graduate Certificate in Communications Law [GradCertCommLaw]
UAC code: 942432 [Autumn semester], 945432 [Spring semester]
CRICOS code: 071752E
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Articulation with UTS courses
Students enrolled in the graduate certificate may apply to transfer to the Master of Communications Law (C04242) (see page 365). Successful candidates are not awarded the graduate certificate but subjects undertaken within the graduate certificate are recognised and applied towards the master’s.

Other information
Further information for future students is available from:
- telephone +61 2 9514 3660
- email law@uts.edu.au

Further information for current students is available from:
- telephone 1300 ask UTS (1300 275 887)
- or +61 2 9514 1222
- Ask UTS www.ask.uts.edu.au

C11220v1 Graduate Certificate in Adult Numeracy Teaching
Award(s): Graduate Certificate in Adult Numeracy Teaching [GradCertAdNumTeach]
UAC code: 942246 [CSP] [Autumn semester], 942247 [PDFP] [Autumn semester]
Commonwealth-supported place?: Yes
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note(s)
This course is not offered to international students.

Overview
UTS is a leading provider of postgraduate language and literacy courses with the longest tradition of adult basic education (ABE) teacher training of any university in NSW. This course is for people who wish to gain an initial specialist qualification in teaching numeracy to adults. It provides graduates with a specialist teaching qualification that enables them to work in the field of adult numeracy education in both the public and private sectors and registered training organisations.

The course includes two practicums that integrate relevant theoretical perspectives on adult basic education with practical teaching and learning applications.
Course aims
Graduates of this course are expected to be able to:
- demonstrate a critically reflective approach to planning and facilitating learning of adult numeracy learners
- show confidence and exercise effective strategies for developing the numeracy knowledge and skills needed as teachers of adult numeracy, and
- engage professionally in the education of adults.

Career options
Career options include adult basic education practitioner in community colleges, corrective services, AMES; TAFE and public and private adult education institutions that design and deliver programs for adults to learn and build on basic numeracy skills, or provide integrated learner support in VET programs, or design and deliver workplace numeracy programs.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
The course comprises 24 credit points, made up of four compulsory core subjects.

Course completion requirements
STM90549 Core subjects (Adult Numeracy Teaching) 24cp

Course program
The course program is shown below.

Part time
Year 1
Autumn semester
010070 Professional Practice 1 Language Literacy and Numeracy 6cp
013831 Maths for Numeracy Teachers 6cp
Spring semester
010071 Professional Practice 2 Language Literacy and Numeracy 6cp
013971 Teaching and Learning Numeracy 6cp

Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Adult Numeracy Teaching and the Graduate Diploma in Adult Literacy and Numeracy Teaching (C06096) (see page 392).

Other information
Further information is available from UTS: Education at:
www.education.uts.edu.au
Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx

C11221v1 Graduate Certificate in Adult Education
Award(s): Graduate Certificate in Adult Education (GradCertAdEd)
UAC code: 942240 (CSP) (Autumn semester), 942241 (PDFP) (Autumn semester), 942242 (PDFP) (Spring semester)
Commonwealth-supported place?: Yes
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Note[s]
This course is not offered to international students.

Overview
UTS is a leading provider of postgraduate programs in adult education in Australia and enjoys a reputation as being one of the leading providers in the world. This course introduces new practitioners, or practitioners without prior formal study in the field, to adult education and learning literature, theories and practices of program development.

Many adult education staff at UTS are recognised leaders in the field and their expertise and close connection with professional and community networks provides students with up-to-date learning opportunities and access to guest lecturers and diverse organisations. It also provides a practice-based subject to further develop teaching and training skills.

Course aims
The course aims to:
- develop students' expertise in adult teaching
- provide foundation knowledge in adult learning
- provide teaching experience.

Career options
Graduates of this course are positioned to work in a diverse range of adult learning and training settings, ranging from private and public sector organisations to community organisations, non-government organisations, as well as in formal and non-formal education institutions.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Applications
Local students
Local applicants apply through the Universities Admissions Centre.

Course duration and attendance
The course is offered on a one-year, part-time basis.

Course structure
The course comprises 24 credit points, made up of three compulsory core subjects (totalling 18 credit points) and one elective subject (totalling 6 credit points). Not all electives are offered every semester.

Course completion requirements
CBK90826 Electives (Adult Education) 6cp
STM90528 Core subjects (Adult Education) 18cp
Total 24cp

Course program
Course program are shown below for Autumn and Spring commencing students.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Classes held at times suitable for full-time workers.

This course is suitable for people who wish to obtain an initial adult teaching qualification in TESOL. It specifically focuses on the teaching of adult students.

This course is part of an articulated program with the Master of Education (C04232) (see page 349). Graduates of this course receive 12 credit points of credit recognition towards the Master of Education (C04232) (see page 349) for completed subjects on admission to the Adult Education, Organisational and Workplace Learning, or Popular Education and Social Change majors.

Articulation with UTS courses

This course is part of an articulated program with the Master of Education (C04232) (see page 349). Graduates of this course receive 12 credit points of credit recognition towards the Master of Education (C04232) (see page 349) for completed subjects on admission to the Adult Education, Organisational and Workplace Learning, or Popular Education and Social Change majors.

Course aims

The course aims to produce TESOL teachers who are knowledgeable, reflective and engaging in their practice, have well developed interpersonal skills, are keen to put current developments in learning and teaching into practice and have a commitment to lifelong learning.

Career options

Career options include a teacher of English as a second language (ESL) in Australia or a teacher of English as a foreign language (EFL) in overseas contexts (applicants are advised to check with potential employing bodies regarding employment requirements).

Admission requirements

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Local students

Local applicants apply through the Universities Admissions Centre.

International students

International students apply through UTS International.

Course duration and attendance

The course is offered on a one-semester, full-time or two-semester, part-time basis.

The subjects in STM90529 are run in standard weekly mode for TESOL students, except for 010071 Professional Practice 2 Language Literacy and Numeracy, which is run in block mode.

Course structure

Students must complete 24 credit points, comprising four core subjects.

Industrial training/professional practice

There is a practicum placement for subjects 010070 Professional Practice 1 Language Literacy and Numeracy and 010071 Professional Practice 2 Language Literacy and Numeracy.

Course completion requirements

STM90529 Core subjects (TESOL) 24cp Total 24cp

Course program

Typical full-time and part-time programs are shown below.

Autumn commencing, full time

Year 1

Autumn semester

010070 Professional Practice 1 Language Literacy and Numeracy 6cp
010071 Professional Practice 2 Language Literacy and Numeracy 6cp
013102 Introduction to Language 6cp
013958 Language Teaching Methodology 6cp

Spring semester

013977 Teaching and Learning in Practice 6cp
010070 Professional Practice 1 Language Literacy and Numeracy 6cp
010071 Professional Practice 2 Language Literacy and Numeracy 6cp
Autumn commencing, part time
Year 1
Autumn semester
010070  Professional Practice 1 Language Literacy and Numeracy 6cp
013958  Language Teaching Methodology 6cp
Spring semester
010071  Professional Practice 2 Language Literacy and Numeracy 6cp
013102  Introduction to Language 6cp
Spring commencing, full time
Year 1
Spring semester
010070  Professional Practice 1 Language Literacy and Numeracy 6cp
010071  Professional Practice 2 Language Literacy and Numeracy 6cp
013102  Introduction to Language 6cp
013958  Language Teaching Methodology 6cp
Spring commencing, part time
Year 1
Spring semester
010070  Professional Practice 1 Language Literacy and Numeracy 6cp
010071  Professional Practice 2 Language Literacy and Numeracy 6cp
013102  Introduction to Language 6cp
013958  Language Teaching Methodology 6cp
Articulation with UTS courses
This course is part of an articulated program comprising the Graduate Certificate in Teaching English to Speakers of Other Languages, the Graduate Diploma in Teaching English to Speakers of Other Languages (CD7118) (see page 417) and the Master of Arts in Teaching English to Speakers of Other Languages (C04245) (see page 368).
Other information
Further information is available from UTS: Education at:
www.education.uts.edu.au
Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
Future international students:
telephone 1800 774 816 (frequcall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx

C11225v1 Graduate Certificate in Design
Award(s): Graduate Certificate in Design (GradCertDesign)
CRICOS code: 071632B
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Note(s)
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.
Transfer is for students enrolled in the Master of Design (C04243) (see page 366).
Overview
Unique in Australia, this course is intellectually vibrant, socially engaging, visionary, practice focused and actively linked to industry. The course is centred around building a design community network.
The course has two main components: specialised master classes led by a studio leader and industry partners and theory and technology subjects taught across the program.
The program focuses on and integrates research, industry collaboration, internationalisation and a design culture through the delivery of specialist, core and trans-disciplinary subjects. It provides a postgraduate education that is flexible in both its practice orientation and research integration.
With a focus on design evolution, innovative integration of new technologies, practice and student experimentation, the course is delivered by experienced studio leaders who are acknowledged leaders in the specific industries and professions.
Course aims
Designed to produce a balance between high levels of specialisation and lateral thinking, the program enables students to examine design from a trans-disciplinary perspective.
It enables students to explore design issues under the supervision of a practice leader, to learn new strategies and the application of research and theory. It supports best practices in postgraduate design education through learning and research strategies that critically examine design practice.
Graduates of this course are leaders in design and related industries through their expertise in product and service development. They are able to utilise strategic processes, creative tools and research skills for innovation in design.
The program provides a suite of subjects for postgraduate designers in the areas of interaction, strategy and enterprise, lighting design, technotextiles, and text and image. Common subjects explore related conceptual challenges and questions of visual expression in the quest to develop useful, usable and resonant designs. These include understanding and articulating the importance of ‘user experience’; the role of design in humanising information, the aesthetic and conceptual dynamics of effective communication, strategic thinking, and aspects of design management, branding and communication.
Career options
Graduates’ careers are enhanced by high-level professional knowledge and skills for the workplace, with possession of specialised knowledge in advanced textiles, space and materials, interaction, sustainable design and innovation.
Course duration and attendance
The course is offered on a one-semester, full-time or one-year, part-time basis.
Course structure
Students must complete 24 credit points of subjects.
Course completion requirements
CBK90670 Design Expertise choice 24cp
Total 24cp
Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 24 credit points of study and gain a graduate certificate qualification.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

C11226v1 Graduate Certificate in Midwifery Studies

Course aims
Students completing this course develop core skills and knowledge in moving image, digital media and sound production. The subjects allow students to develop key media production skills and knowledge that can be continued into the graduate diploma or master’s degree.

Career options
The course prepares students for advanced study and orientates them to the media industries, particularly those involving moving image, sound, digital media and interaction.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is completed on a one-semester, full-time or one-year, part-time basis.

Course structure
The course totals 24 credit points of study, consisting of three 8-credit-point core subjects.

Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 24 credit points of study and gain a graduate certificate qualification.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.uts.edu.au

C11227v1 Graduate Certificate in Media Arts and Production

Course aims
Students completing this course develop core skills and knowledge in moving image, digital media and sound production. The subjects allow students to develop key media production skills and knowledge that can be continued into the graduate diploma or master’s degree.

Career options
The course prepares students for advanced study and orientates them to the media industries, particularly those involving moving image, sound, digital media and interaction.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
Applicants who have completed a bachelor’s, graduate diploma or master’s in any field of study or a graduate certificate in a related field of study can apply. Applicants who do not possess the relevant qualification must submit a CV and personal statement outlining their educational and professional achievements.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The course is completed on a one-semester, full-time or one-year, part-time basis.

Course structure
The course totals 24 credit points of study, consisting of three 8-credit-point core subjects.

Exit award
This exit-only course enables students enrolled in the master’s course to exit after completing 24 credit points of study and gain a graduate certificate qualification.

Other information
Further information is available from:
UTS Student Centre
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Learning

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

of ongoing teaching during course enrolment. UTS full-time or casual higher education teachers who can provide evidence

Applicants must be full-time or fractional higher education academics, to pursue graduate studies.

of general and professional qualifications that demonstrates potential or an equivalent or higher qualification, or submitted other evidence

Applicants must have completed a UTS recognised bachelor’s degree, admission requirements

• an ability to reflect critically on and evaluate their own teaching
• subject design and assessment in a variety of contexts and with a diversity of students (relates to professional and intellectual attributes)
• a commitment to scholarship in teaching and to self-directed continuing teaching development (relates to professional and personal attributes), and
• a broader awareness of the higher education, university and academic career contexts in which they work, to assist them to develop their academic potential more effectively (relates to professional and personal attributes).

Course aims

The course aims to encourage students to develop:

• an understanding of different ways of thinking about university teaching, and the consequences for student learning, to enable them to make informed decisions about their approaches to teaching, subject design and assessment in a variety of contexts and with a diversity of students (relates to professional and intellectual attributes)
• an ability to reflect critically on and evaluate their own teaching and subjects and make changes aimed at improving their students’ learning (relates to professional and intellectual attributes)
• a commitment to scholarship in teaching and to self-directed continuing teaching development (relates to professional and personal attributes), and
• a broader awareness of the higher education, university and academic career contexts in which they work, to assist them to develop their academic potential more effectively (relates to professional and personal attributes).

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must be full-time or fractional higher education academics, or casual higher education teachers who can provide evidence of ongoing teaching during course enrolment. UTS full-time or fractional-time staff are exempt from paying course fees through sponsorship by the University.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

Course duration and attendance

The course can be completed over one year, but students may also choose to complete it over a longer period of time.

The course is a part-time program, equivalent to eight weeks of full-time study. Subjects vary in their modes of offering, but typically involve face-to-face interactive workshops and online interaction.

Course structure

The course consists of 24 credit points of study, comprising four subjects which must be completed to be eligible for the award.

Course completion requirements

010042 Student Learning and Teaching Approaches 6cp
010043 Course Design and Assessment 6cp
010044 Scholarly Teaching and Learning Project 6cp
010045 Reflective Academic Practice 6cp

Total 24cp

Other information

Further information is available from IML on:
telephone +61 2 9514 1669
email Enza.Mirabella@uts.edu.au

C11228v1 Graduate Certificate in Higher Education Teaching and Learning

Award(s): Graduate Certificate in Higher Education Teaching and Learning (GradCertHEd)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5

Notes

This course is not offered to international students.

Overview

This course is offered by the Institute for Interactive Media and Learning (IML) through UTS: Education. The course helps students to reflect critically on their teaching in ways which are underpinned by their own experiences and those of their students and colleagues, and by the research on learning and teaching in higher education. The course is designed for current university academics or part-time university teachers interested in an academic career.

Course aims

The course aims to encourage students to develop:

• an understanding of different ways of thinking about university teaching, and the consequences for student learning, to enable them to make informed decisions about their approaches to teaching, subject design and assessment in a variety of contexts and with a diversity of students (relates to professional and intellectual attributes)
• an ability to reflect critically on and evaluate their own teaching and subjects and make changes aimed at improving their students’ learning (relates to professional and intellectual attributes)
• a commitment to scholarship in teaching and to self-directed continuing teaching development (relates to professional and personal attributes), and
• a broader awareness of the higher education, university and academic career contexts in which they work, to assist them to develop their academic potential more effectively (relates to professional and personal attributes).

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Applicants must be full-time or fractional higher education academics, or casual higher education teachers who can provide evidence of ongoing teaching during course enrolment. UTS full-time or fractional-time staff are exempt from paying course fees through sponsorship by the University.

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

Course duration and attendance

The course can be completed over one year, but students may also choose to complete it over a longer period of time.

The course is a part-time program, equivalent to eight weeks of full-time study. Subjects vary in their modes of offering, but typically involve face-to-face interactive workshops and online interaction.

Course structure

The course consists of 24 credit points of study, comprising four subjects which must be completed to be eligible for the award.

Course completion requirements

010042 Student Learning and Teaching Approaches 6cp
010043 Course Design and Assessment 6cp
010044 Scholarly Teaching and Learning Project 6cp
010045 Reflective Academic Practice 6cp

Total 24cp

Other information

Further information is available from IML on:
telephone +61 2 9514 1669
email Enza.Mirabella@uts.edu.au

C11229v1 Graduate Certificate in Intellectual Property

Award(s): Graduate Certificate in Intellectual Property (GradCertIP)
UAC code: 942435 (distance) (Autumn semester), 945435 (distance) (Spring semester)
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Notes

This course is not offered to international students.

Overview

UTS has established expertise and a reputation for providing courses relevant to the needs of the patent and trade mark professions.

The UTS Intellectual Property program is the first at an Australian university that fulfils the entire educational requirements for registration as a trade marks attorney and patent attorney in Australia under the relevant regulations.

The unique feature of this course is that it may be undertaken entirely online, removing the need for students to attend face-to-face classes.

Course aims

This course provides graduates with an understanding of the principles of the registered trade marks system, the protection of unregistered marks and related forms of protection against misleading or unfair trading conduct in Australia. In addition, graduates understand the content and implication of a patent specification, enabling them to advise upon possible questions of infringement, validity and compliance.

Career options

Depending on the subjects taken, graduates may seek registration as a trade marks attorney and/or patent attorney in Australia. Arts administrators or media professionals may enhance career options through building expertise in the commercialisation or management of intellectual property assets. Other career options include: patent and trade marks attorney, IP lawyer, IP portfolio manager, policy maker and government regulator.

This course enables overseas registered attorneys to undertake the necessary subjects that the Professional Standards Board requires for Australian registration.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.

Previous qualifications can be in any discipline. Admission is at the discretion of the associate dean (teaching and learning).

The English proficiency requirement for local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-66; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

Credit recognition
UTS may grant successful applicants advanced standing or exemption from one or more subjects but the Professional Standards Board for Patent and Trade Marks Attorneys (PSB) has no authority to recognise, for the purpose of registration as a patent attorney or trade marks attorney, such exemptions. Students intending to seek registration need to seek exemption from the PSB. Further information is available from:

The Secretary
Professional Standards Board for Patent and Trade Marks Attorneys
PO Box 200
Woden ACT 2606
telephone +61 2 6283 2345
fax +61 2 6285 1048
email mail.psb@ipaustralia.gov.au
www.psb.gov.au

Exemptions are generally not granted for subjects not primarily directed to Australian law.

Course duration and attendance
The course can be completed in a minimum of one semester of full-time or one year of part-time study (timetabling restrictions apply). Most subjects within this course can be studied by distance online and require no on-campus attendance. All lectures, tutorials, course materials and assessments are distributed by a combination of web-based technology and electronic media. Students conduct all communication with the lecturer by electronic means. A number of subjects are concurrently offered in traditional face-to-face, on-campus format.

Course structure
The course requires completion of 24 credit points of subjects. Subjects are timetabled annually, but not all subjects are offered every semester. The current timetable can be found at:
http://timetable.uts.edu.au

Course completion requirements
CBK90712 Choice  24cp
Total 24cp

Transfer between UTS courses
Subjects undertaken within the Graduate Certificate in Trade Mark Law and Practice (C11130) (see page 445) are recognised within the Graduate Certificate in Intellectual Property (C11229) (see page 466). Students enrolled in C11130 may apply to internally transfer to this course. Candidates are not awarded the Graduate Certificate in Trade Mark Law and Practice but subjects undertaken are applied towards this graduate certificate.

Professional recognition
Subject to final board approval, where applicants have a requisite tertiary qualification as stipulated by the Professional Standards Board for Patent and Trade Marks Attorneys, this course satisfies the educational requirements necessary for registration as a trade marks attorney in Australia.

Other information
Further information for future students is available from:
telephone +61 2 9514 3660
email law@uts.edu.au
Further information for current students is available from:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C11230v1 Graduate Certificate in Pharmaceutical Sciences
Award[s]: Graduate Certificate in Pharmaceutical Sciences
GradCertPharmSc
CRICOS code: 07557D
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5

Note(s)
This is an exit-only course. There is no direct admission to it. Current UTS students may be able to transfer into this course. Check with your faculty.

Overview
Transfer is for students enrolled in the Master of Pharmacy (C04252) (see page 376).

Course completion requirements
96001 Introduction to Pharmacy  6cp
96002 Concepts in Pharmaceutical Sciences  6cp
96003 Pharmaceutics  6cp
96004 Professional Services 1  6cp
Total 24cp

Exit award
This in an exit-only course for students enrolled in the Master of Pharmacy (C04252) (see page 376). Direct entry is not available.

Other information
For further information, contact UTS: Pharmacy:
email pharmacy@uts.edu.au
www.pharmacy.uts.edu.au

C11232v1 Graduate Certificate in Professional Legal Practice
Award[s]: Graduate Certificate in Professional Legal Practice
GradCertProfLegalPrac
UAC code: 942440 (Autumn semester), 942441 (distance) (Autumn semester)
CRICOS code: 077342G
Commonwealth-supported place?: No
Load credit points: 24
Course EFTSL: 0.5
Location: City campus

Overview
The Graduate Certificate in Professional Legal Practice allows students to complete the practical legal training (PLT) requirements necessary for admission by the Supreme Court of NSW to practise as a lawyer. The UTS PLT program is accredited by the Legal Profession Admission Board (LPAB) of the Supreme Court of NSW and offers students a university-standard level of teaching, involving interactive exercises such as practice courts, simulated practice transactions and skills training.

Career options
Career options include lawyer, provided graduates have fulfilled all other academic requirements.
Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies.
For this course the equivalent qualification required is a bachelor’s degree in law, the Jurs Doctor, LPAB Diploma in Law, or a law qualification from an overseas jurisdiction. Lawyers with overseas law qualifications should consult with the LPAB for admission purposes in order to practice law in NSW. Admission is at the discretion of the associate dean (teaching and learning).
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or D/EELP: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Credit recognition
Students studying this course are given credit recognition for CBK90399 Law Options. This means students need to complete STM90792 Core subjects (18cp), including 75411 Practical Experience subject (6cp), in order to fulfil the course requirements.
Credit is not given where students enter the course on completion of the LPAB Diploma in Law.

Course duration and attendance
The course can be completed in one semester of full-time or one year of part-time study, plus 16 weeks of full-time (or equivalent part-time) approved practical experience.
Further information regarding completion requirements is available from the practical experience guidelines and rules at: www.law.uts.edu.au/practical/experience/rules
Students who elect to study by distance should refer to the individual subjects with regard to any requirement to attend on-campus intensive block classes.

Course structure
Students complete 24 credit points of subjects, plus 16 weeks of full-time (or equivalent part-time) practical experience.

Industrial training/professional practice
A practical experience work placement is a compulsory and integral component of the course. Practical experience requires students to complete 16 weeks of full-time (or equivalent part-time) practical experience work placement. Students must complete their practical experience work placement within two-and-a-half years of enrolling in 75411 Practical Experience. Further information about the practical experience component of the course can be found at: www.law.uts.edu.au/practical

Course completion requirements
STM90792 Core subjects 18cp
CBK90399 Law options 6cp
Total 24cp

Course program
All subjects are timetabled each semester. The current timetable can be found at: http://timetable.uts.edu.au

Full time, Autumn or Spring commencing
Year 1
Autumn or Spring semester
75424 Legal and Professional Skills 6cp
75422 Transactional Practice 6cp
75423 Litigation and Estate Practice 6cp
75411 Practical Experience 6cp
Select 6 credit points of options 6cp

Part time, Autumn or Spring commencing
Year 1
Autumn or Spring semester
75424 Legal and Professional Skills 6cp
Select one of the following: 6cp
75422 Transactional Practice 6cp
75423 Litigation and Estate Practice 6cp
Year 2
Autumn or Spring semester
Select one of the following: 6cp
75423 Litigation and Estate Practice 6cp
75422 Transactional Practice 6cp
75411 Practical Experience 0cp
Select 6 credit points of options 6cp

Professional recognition
This course satisfies the requirements for admission as a lawyer to the Supreme Court of NSW.

Other information
Further information for students is available from: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

C08002v1 Bachelor of Teaching in Secondary Education
Award(s): Bachelor of Teaching in Secondary Education (BTeach)
UAC code: 942252 (LOTE CSP) (Autumn semester), 942260 (English CSP) (Autumn semester), 942262 (Mathematics CSP) (Autumn semester), 942264 (Science CSP) (Autumn semester), 942266 (Visual Arts CSP) (Autumn semester), 942268 (Personal Development, Health and Physical Education CSP) (Autumn semester), 942272 (Mathematics/Science/CSP) (Autumn semester), 942278 (English/History CSP) (Autumn semester), 942280 (Business, Business Studies and Economics CSP) (Autumn semester)
CRICOS code: 057880C
Commonwealth-supported place?: Yes
Load credit points: 144
Course EFTSL: 3
Location: Kuring-gai campus

Note(s)
This is a graduate-entry degree only.

Overview
This graduate-entry teacher education preparation course provides students with a qualification to teach in secondary schools. Students who have both the required undergraduate degree and specialisation subjects can complete the course in one year of full-time intensive study. The course is offered in a range of specialist areas.
The course consists of three components of study. The professional studies component is available in each of the specialisation areas and aims to develop the professional knowledge, skills and values needed by an effective educator in students’ key learning areas. The education studies component provides research-based studies of educational theory and practice as a basis for professional decision-making in the school context. These subjects draw upon the foundation education disciplines of psychology, sociology and philosophy, as well as addressing the education of students with special needs. The professional experience component includes both campus-based and field-based experiences.
This course is a secondary school teaching preparation course. It is suitable for students about to graduate with a bachelor’s degree and for mature-aged graduates who are changing careers and want a teaching qualification. It includes an intensive professional experience program where students spend up to 10 weeks in practical experience teaching and offers extensive, structured and closely supported experiences of secondary school teaching in different settings. The course has the flexibility to enable students who have most but not all the required undergraduate specialisation subjects to undertake the additional required subjects as part of the degree.
Course aims

The course aims to produce students who:
- are able to teach in a secondary school setting
- are reflective in practice
- are able to adapt to the changing nature of teaching
- have well-developed interpersonal skills
- are keen to put current developments in learning and teaching into practice, and
- have a commitment to lifelong learning.

Career options

Career options include secondary school teaching in the chosen specialisations.

Admission requirements

Applicants must have completed a UTS recognised bachelor’s degree in a relevant discipline at an appropriate level.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.5 overall, with a minimum of 6.0 in both the speaking and listening modules, and a reading and writing score of 7.0; or TOEFL: paper based: 610-633 overall with TWE of 5.0, internet based: 102-109 overall with a writing score of 24; or DEEP: A; or PTE: 73-79.

The English language requirements for the LOTE major are: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-85 overall with a writing score of 21; or DEEP: B; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Local students

Local students apply through the Universities Admissions Centre.

International students

International students apply through UTS International.

Credit recognition

Previous study is assessed at the time of application to determine whether completed study satisfies the subject specialisation requirement. Students who have both the required undergraduate degree and specialisation subjects receive 72 credit points in credit recognition. Students who receive less than the maximum 72 credit points in credit recognition are required to complete additional subjects in the specialisation areas. UTS assesses this after an application has been submitted.

Applicants can view the subject requirements for teacher accreditation set by the NSW Institute of Teachers (NSWIT) for each teaching area at: www.nswteachers.nsw.edu.au/Teaching-in-NSW.html

Course duration and attendance

The course can be completed in one year of full-time intensive or part-time equivalent study. Students attend in weekly and/or block mode. Some subjects begin in the week before the start of semester.

Course structure

The total course requirement is 144 credit points comprising a maximum 72 credit points in credit recognition and 72 credit points made up of 14 core subjects, including two practicum-based subjects.

Course completion requirements

| STM00640 Core subjects (Secondary Education) | 36cp |
| CBK90775 Major choice | 108cp |
| **Total** | **144cp** |

Course program

Following the list of majors, example programs are given for each major based on a student receiving the maximum 72 credit points in credit recognition and undertaking one year of full-time intensive study.

List of majors

- MAJ07058 Mathematics 108cp
- MAJ07059 Visual Arts 108cp
- MAJ07060 Personal Development, Health and Physical Education 108cp
- MAJ07061 Science 108cp
- MAJ07063 English 108cp
- MAJ07064 Mathematics/Science 108cp
- MAJ07068 English/History 108cp
- MAJ07070 Commerce, Business Studies and Economics 108cp
- MAJ07062 Languages other than English 108cp

Commerce, Business Studies and Economics major

**Year 1**

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<tr>
<td>013005 The Secondary School 6cp</td>
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<td>013001 The Psychology of Adolescent Learning 6cp</td>
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<tr>
<td>013039 Commerce, Business Studies and Economics Teaching Methods 1 6cp</td>
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<td>013042 Commerce, Business Studies and Economics Teaching Methods 2 6cp</td>
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English major

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English/History major

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UTS: Handbook 2013
Postgraduate coursework courses
### May session
- 013401 Professional Experience and Classroom Management 1 6cp

### July session
- 013004 Issues in Indigenous Australian Education 3cp

### Spring semester
- 013006 Educating Students with Special Needs 6cp
- 013007 Professional Learning Portfolio 6cp
- 013408 Designing Learning for a Digital Generation 6cp
- 013053 English Teaching Methods 2 6cp
- 013057 History Teaching Methods 2 6cp

### August session
- 013402 Professional Experience and Classroom Management 2 6cp

### Languages other than English major

#### Year 1

### Autumn semester
- 013005 The Secondary School 6cp
- 013001 The Psychology of Adolescent Learning 6cp
- 013046 Language Teaching Methods 1 6cp
- 013064 Language Teaching Methods 3 6cp
- 013008 The Socio-cultural Contexts of Secondary Education 3cp

### May session
- 013401 Professional Experience and Classroom Management 1 6cp

### July session
- 013004 Issues in Indigenous Australian Education 3cp

### Spring semester
- 013006 Educating Students with Special Needs 6cp
- 013007 Professional Learning Portfolio 6cp
- 013008 Designing Learning for a Digital Generation 6cp
- 013058 Language Teaching Methods 2 6cp
- 013070 Language Teaching Methods 4 6cp

### August session
- 013402 Professional Experience and Classroom Management 2 6cp

### Mathematics major

#### Year 1

### Autumn semester
- 013005 The Secondary School 6cp
- 013001 The Psychology of Adolescent Learning 6cp
- 013047 Mathematics Teaching Methods 1 6cp
- 013065 Mathematics Teaching Methods 3 6cp
- 013008 The Socio-cultural Contexts of Secondary Education 3cp

### May session
- 013401 Professional Experience and Classroom Management 1 6cp

### July session
- 013004 Issues in Indigenous Australian Education 3cp

### Spring semester
- 013006 Educating Students with Special Needs 6cp
- 013007 Professional Learning Portfolio 6cp
- 013048 Designing Learning for a Digital Generation 6cp
- 013060 Personal Development, Health and Physical Education Teaching Methods 2 6cp
- 013072 Personal Development, Health and Physical Education Teaching Methods 4 6cp

### August session
- 013402 Professional Experience and Classroom Management 2 6cp

### Personal Development, Health and Physical Education major

#### Year 1

### Autumn semester
- 013005 The Secondary School 6cp
- 013001 The Psychology of Adolescent Learning 6cp
- 013048 Personal Development, Health and Physical Education Teaching Methods 1 6cp
- 013066 Personal Development, Health and Physical Education Teaching Methods 3 6cp
- 013008 The Socio-cultural Contexts of Secondary Education 3cp

### May session
- 013401 Professional Experience and Classroom Management 1 6cp

### July session
- 013004 Issues in Indigenous Australian Education 3cp

### Spring semester
- 013006 Educating Students with Special Needs 6cp
- 013007 Professional Learning Portfolio 6cp
- 013048 Designing Learning for a Digital Generation 6cp
- 013060 Personal Development, Health and Physical Education Teaching Methods 2 6cp
- 013072 Personal Development, Health and Physical Education Teaching Methods 4 6cp

### August session
- 013402 Professional Experience and Classroom Management 2 6cp

### Science major

#### Year 1

### Autumn semester
- 013005 The Secondary School 6cp
- 013001 The Psychology of Adolescent Learning 6cp
- 013049 Science Teaching Methods 1 6cp
- 013067 Science Teaching Methods 3 6cp
- 013008 The Socio-cultural Contexts of Secondary Education 3cp

### May session
- 013401 Professional Experience and Classroom Management 1 6cp

### July session
- 013004 Issues in Indigenous Australian Education 3cp

### Spring semester
- 013006 Educating Students with Special Needs 6cp
- 013007 Professional Learning Portfolio 6cp
- 013048 Designing Learning for a Digital Generation 6cp
- 013061 Science Teaching Methods 2 6cp
- 013073 Science Teaching Methods 4 6cp

### August session
- 013402 Professional Experience and Classroom Management 2 6cp
Visual Arts major

Year 1

Autumn semester
013005 The Secondary School  6cp
013001 The Psychology of Adolescent Learning  6cp
013050 Visual Arts Teaching Methods 1  6cp
013068 Visual Arts Teaching Methods 3  6cp
013008 The Socio-cultural Contexts of Secondary Education  3cp

May session
013401 Professional Experience and Classroom Management  6cp

July session
013004 Issues in Indigenous Australian Education  3cp

Spring semester
013006 Educating Students with Special Needs  6cp
013007 Professional Learning Portfolio  6cp
013408 Designing Learning for a Digital Generation  6cp
013062 Visual Arts Teaching Methods 2  6cp
013074 Visual Arts Teaching Methods 4  6cp

August session
013402 Professional Experience and Classroom Management  6cp

Professional recognition
This course has received professional accreditation by the NSWIT as a recognised secondary school teaching qualification. To gain employment as a teacher in NSW schools, graduands must meet the requirements of the NSWIT, including language proficiency.

Other information
Further information is available from UTS: Education at:
www.education.uts.edu.au

Local and current students:
telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au

Future international students:
telephone 1800 774 816 (freecall within Australia)
+61 3 9627 4816 (from outside Australia)
www.uts.internationalstudent.info/Register.aspx
### POSTGRADUATE RESEARCH COURSES

#### CO2001v2 Doctor of Philosophy

**Award(s):** Doctor of Philosophy (PhD)

**CRICOS code:** 02331D

**Course EFTSL:** 4

**Location:** City campus

**Note(s):**

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact a UTS Student Centre or the UTS: Graduate Research School for further details.

**Overview**

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

**Admission requirements**

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

**International students**

**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

**Course structure**

Candidates are required to complete a thesis, under the supervision of appropriate members of academic staff. A formal course of study or other work may also be prescribed.

Candidates are required to submit, in consultation with their supervisor(s), a progress report at the end of each semester, and to complete a doctoral assessment and seminar.

Candidates are also invited to participate in other research activities.

**Course completion requirements**

Select one of the following:

- 13907 PhD Thesis: Architecture
- 17900 PhD Thesis: Built Environment
- 81000 PhD Thesis: Design

**Other information**

Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

www.dab.uts.edu.au

or from the UTS: Graduate Research School on:

telephone +61 2 9514 1336

e-mail ugs@uts.edu.au

www.gradschool.uts.edu.au

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#### CO2018v3 Doctor of Philosophy

**Award(s):** Doctor of Philosophy (PhD)

**CRICOS code:** 036570B

**Course EFTSL:** 4

**Location:** City campus

**Note(s):**

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Engineering or the UTS: Graduate Research School for further details.

**Overview**

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

The faculty’s policy is one of close interaction with industry and the profession, and of seeking to contribute directly to the advancement of Australian engineering practice. Applied research programs and studies involving a direct relationship with industry are strongly encouraged. The majority of research conducted by faculty staff is supported by industry sources.

**Career options**

Career options include positions in universities and other institutions undertaking research or other academic work including teaching. Opportunities involving research and development also exist with national and international firms.

**Admission requirements**

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

**International students**

**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

The work may be carried out either on University premises or at a site external to the University, or some combination of both. Candidates may commence their studies from January or July in any given year.

**Course structure**

Candidates are required to complete a thesis, under the supervision of appropriate members of academic staff. A formal course of study or other work may also be prescribed.

There are three specific stages to the doctoral program to frame and support the progress of the candidate and their study. The doctoral program includes the formalisation and/or introduction of a number of introductory and advanced modules, including subjects covering research preparation and research methods, to support the research and professional development of the student.

Research student progress is supported and reviewed through a doctoral study plan (DSP). Students design their own DSP in consultation with their supervisor(s). In the first stage, the DSP is based on the student’s academic and professional background and his or her goals. The second and third stages are based on the progress
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

Course completion requirements

49986
PhD Thesis: Engineering

Transfer between UTS courses

Transfer from a research master’s degree program may be offered on application.

Other information

Further information is available from the Faculty of Engineering and Information Technology Research and Development Office on:

telephone: +61 2 9514 2686

e-mail research@eng.uts.edu.au

www.eng.uts.edu.au

C02019v3 Doctor of Philosophy

Award(s): Doctor of Philosophy (PhD)
CRICOS code: 014627E
Course EFTSL: 4
Location: City campus

Note(s)

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Communication or the UTS: Graduate Research School for further details.

Overview

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

Career options

The research degrees offered by UTS: Communication are especially valuable for those wishing to pursue an academic career, a career in research or an advanced level of professional practice.

Admission requirements

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Selection criteria also include the quality of the research proposal, the faculty’s ability to offer appropriate supervision in the applicant’s chosen field, and, where necessary, demonstration of generic technical skills.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or IELTS: 7.0 overall with a writing score of 7.0; or IELTS: 6.5 overall with a writing score of 7.0; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirements: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study.

Course structure

This research degree is undertaken wholly by thesis. A PhD thesis is normally a work of 80,000-100,000 words. Coursework subjects may be prescribed according to individual student requirements. While the doctoral thesis is normally written in dissertation style, candidates may, if they wish, illustrate their argument by also submitting film, video, sound/audio, photography or other formats. Applicants should contact the research degrees administrator for further information about non-traditional formats for thesis presentation.

The Doctor of Philosophy is structured in three phases. Phase 1 involves the development of a number of advanced research skills and capabilities. At the beginning of the program, each student negotiates a doctoral study plan with their supervisor. This plan makes explicit the kinds of support each student requires. A formal doctoral assessment is undertaken at the end of Phase 1 in which the candidates present a full proposal for assessment, which is a prerequisite for entering Phase 2.

In Phase 2, students develop their individual program of research, culminating in Phase 3 in the preparation and submission of a major thesis which makes a sustained contribution to knowledge in their field of inquiry.

Research and development activities are provided throughout the three phases to assist students to develop the capabilities of a successful doctoral graduate.

Course completion requirements

51991
PhD Thesis: Humanities and Social Sciences

Other information

Further information is available from the research degrees administrator:

email Juleigh.Slater@uts.edu.au

C02020v2 Doctor of Creative Arts

Award(s): Doctor of Creative Arts [DCA]
CRICOS code: 014425G
Course EFTSL: 4
Location: City campus

Note(s)

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Communication or the UTS: Graduate Research School for further details.

While UTS: Communication may be in a position to provide access to media production facilities for DCA candidates, it provides neither training in the use of those facilities nor the cost of materials.

Overview

The Doctor of Creative Arts (DCA) is for graduates who have a significant record of achievement in the media and the creative arts and who want to undertake substantial research in the areas of media and creative production.

Career options

The research degrees offered by UTS: Communication are especially valuable for those wishing to pursue an academic career, a career in research or an advanced level of professional practice.

Admission requirements

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Selection criteria also include the quality of the applicant’s portfolio of published, screened, exhibited or broadcast creative work, the quality of the research proposal, the faculty’s ability to offer appropriate supervision in the applicant’s chosen field, and, where necessary, demonstration of generic technical skills.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or DEEP: A; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirements: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

Course structure
The work produced for this degree is of equivalent intellectual scope and level to a PhD, but is presented in non-traditional formats. Coursework subjects may be prescribed according to individual student requirements. The substantial creative work should be the equivalent of a 50,000-70,000-word written work, accompanied by a 30,000-word dissertation.

The doctoral program is structured in three phases. Phase 1 involves the development of a number of advanced research skills and capabilities. At the beginning of the program, each student negotiates a doctoral study plan with their supervisor. This plan makes explicit the kinds of support each student requires. A formal doctoral assessment is undertaken at the end of Phase 1 in which the candidates present a full proposal for assessment, which is a prerequisite for entering Phase 2. In Phase 2, students develop their individual program of research, culminating in Phase 3 in the preparation and submission of a dissertation which makes a sustained contribution to knowledge in their field of inquiry.

Research and development activities are provided throughout the three phases to assist students to develop the capabilities of a successful doctoral graduate.

Course completion requirements
51992 Doctoral Project

Other information
Further information is available from the research degrees administrator:
email Juleigh.Slater@uts.edu.au

C02024v3 Doctor of Philosophy
Award(s): Doctor of Philosophy (PhD)
CRICOS code: 03232G
Course EFTSL: 4
Location: City campus

Note(s)
Research degrees are offered on a research training scheme, scholarship or full-fee-paying basis (international). Contact UTS: Health or the UTS Graduate Research School for further details.

Overview
The Doctor of Philosophy is a research degree requiring an original and significant contribution to knowledge in a defined field of study. It is the traditional path for those wishing to assume leadership positions in research.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. When students enrol, they become part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

Career options
This degree prepares nurses, midwives and health service professionals for leadership positions in teaching, management and research. Opportunities are not limited to Australia and there is the possibility of developing a career on an international level.

Admission requirements
Applicants must have completed a UT斯 recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

All research students are expected to attend the twice-yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

Course structure
Students undertake a research project that may be in a professional or clinical area of the student’s choice, or may be of a theoretical nature, addressing gaps in knowledge related to policy or practice. Students choose from a variety of research methodologies with the research approach being determined by the nature of the research undertaken.

The research culminates in the production of a thesis for examination. Students are required to undertake a candidature assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. Students work closely with a principal supervisor and a supervisory panel and are required to report on their progress each semester.

Course completion requirements
Select one of the following:
92984 PhD Thesis: Nursing
93000 PhD Thesis: Midwifery
93001 PhD Thesis: Health
93007 PhD Thesis: Sport and Exercise

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
email nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

C02027v5 Doctor of Juridical Science
Award(s): Doctor of Juridical Science (SJD)
CRICOS code: 00112M
Course EFTSL: 4
Location: City campus

Overview
This course combines coursework subjects and completion of a thesis. Candidates develop their doctoral topic through the coursework component. The SJD is awarded to candidates who successfully complete their coursework and, through their thesis, make an original and distinct contribution to knowledge in their field of specialisation.

This program was the first professional doctorate of its kind in Australia. It counters the isolation experienced by many PhD candidates by providing a combination of postgraduate coursework subjects and a thesis, and allows candidates to benefit from contact with coursework students and UTS: Law academic staff. This degree is valuable for an academic or professional career.

Career options
Career options include positions in universities, undertaking research, contributions to public policy, or other academic work including teaching, submissions to think tanks and interest groups and legal publishing.

Admission requirements
Applicants must have completed a UT斯 recognised master’s by research or bachelor’s degree with first or second class honours
Students are advised to read the General information and Course area information sections in conjunction with specific course entries. Support for the project, availability of supervision, availability of places, legal knowledge and experience, evidence of research capacity in a relevant discipline and the applicant’s overall abilities and experience are all taken into account.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-560 overall with 21 or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Applicants must submit a research proposal at the point of application. Once final approval is obtained for a research proposal, the topic cannot be changed except with the approval of the University. Detailed information about the application process can be found at: www.research.uts.edu.au/future-students

Credit recognition

Students who have successfully completed the Juris Doctor (C04236) (see page 354) at UTS and have completed 6 credit point Master of Laws (C04143) (see page 328) equivalent subjects within the Juris Doctor, may apply for these subjects to be credited towards this course, up to a maximum of 18 credit points. Such students have this credit applied towards, and must complete, Options (CBK90419), contained within Options (Law) (CBK90400).

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study. There are no attendance requirements once the coursework component is completed. The dissertation component may be carried out either on University premises or at a site external to the University, or some combination of both. However, candidates are required to make contact with their supervisor(s) at least once a month to discuss the progress of their dissertation. UTS Law recommends that candidates spend no longer than one-third of the maximum course duration on the coursework subject component and no less than two-thirds of the maximum course duration on the dissertation component.

Course structure

The course requires completion of five 8-credit-point postgraduate coursework subjects, the subject 77697 Higher Degree Research Seminar and a dissertation of approximately 50,000-70,000 words. For a current listing of subjects in each course refer to the study package directory.

While the SJD thesis may be shorter than a PhD thesis, taking account of the coursework component, it is expected to exhibit the same level of originality, criticism and intellectual rigour normally associated with a PhD thesis.

The candidate is required to undertake all assessments as part of the Faculty’s Doctoral Framework three-stage program. Within the first stage candidates must complete a formal candidature assessment and the second stage candidates must complete a progress confirmation assessment to ensure their progress is consistent with completion of the research program in the prescribed time and demonstrates potential to complete the work to standard. Doctoral candidates are required to make an oral presentation of their dissertation six months prior to submission of their dissertation for examination.

Information on UTS: Law’s key research areas and strengths, and the research interests of staff members, is available at postgraduate research degrees (see page 101).

Course completion requirements

Select 48 credit points from the following options: 48cp

- MAJ09390 Corporate and Commercial Law 24cp
- MAJ09392 International Law 24cp
- CBK90400 Options (Law) 24cp
- CBK90412 Options B 24cp
- MAJ09400 Intellectual Property 24cp
- MAJ09410 Global Business Law 24cp
- MAJ09425 Dispute Resolution 24cp

Course program

As part of this course, students must complete the subject 77697 Higher Degree Research Seminar. Candidates may choose to complete one or two majors and the subject 77697 Higher Degree Research Seminar can be counted as part of any one of their major(s). Alternatively, students can choose not to major in a particular area and instead choose subjects from across any major areas of study.

The coursework subjects and 77697 Higher Degree Research Seminar must be completed before the dissertation is commenced as the subjects provide the basis of the research for the dissertation.

List of majors

- MAJ09390 Corporate and Commercial Law 24cp
- MAJ09425 Dispute Resolution 24cp
- MAJ09392 International Law 24cp
- MAJ09400 Intellectual Property 24cp
- MAJ09410 Global Business Law 24cp

Other information

Further information is available from the faculty research officer: telephone: +61 2 9514 3753 fax +61 2 9514 3400 email law.research@uts.edu.au www.law.uts.edu.au

Applicants are encouraged to visit the UTS: Graduate Research School website at: www.gradschool.uts.edu.au

C02028v5 Doctor of Philosophy

Award(s): Doctor of Philosophy (PhD)
CRICOS code: 008681E
Course EFTSL: 4
Location: City campus

Overview

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The PhD is awarded to candidates who make an original and distinct contribution to knowledge in their field of specialisation. This degree is particularly valuable for students wishing to pursue a career in research or academia.

Career options

Career options include positions in universities, undertaking research, contributions to public policy, or other academic work including teaching, submissions to think tanks and interest groups and legal publishing.

Admission requirements

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Support for the project, availability of supervision, availability of places, evidence of research capacity in a relevant discipline and the applicant’s overall abilities and experience are all taken into account. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-560 overall with 21 or DEEP: C; or PTE: 58-64; or CAE: 58-66. Eligibility for admission does not guarantee offer of a place.
International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Applicants must submit a research proposal at the point of application. Once final approval is obtained for a research proposal, the topic cannot be changed except with the approval of the University. Detailed information about the application process can be found at: www.research.uts.edu.au/future-students

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

The work may be carried out either on University premises or at a site external to the University, or some combination of both. Candidates are required to make contact with their supervisor(s) at least once a month to discuss the progress of their research.

Course structure

Candidates are required to submit a dissertation of approximately 100,000 words. As part of this course, students must also complete the subject, 77697 Higher Degree Research Seminar.

The candidate is required to undertake all assessments as part of the Faculty’s Doctoral Framework three-stage program. Within the first stage candidates must complete a formal candidature assessment, and within the second stage candidates must complete a progress confirmation assessment, to ensure their progress is consistent with completion of the research program in the prescribed time and demonstrates potential to complete the work to standard. Doctoral candidates are required to make an oral presentation of their dissertation six months prior to submission of their dissertation for examination.

Information regarding UTS: Law’s key research areas and strengths, and the research interests of staff members, is available at postgraduate research degrees (see page 101).

Course completion requirements

77696 PhD Thesis: Law
77697 Higher Degree Research Seminar 8cp

Other information

Further information is available from the faculty research officer:

phone +61 2 9514 3753
fax +61 2 9514 3400
email law.research@uts.edu.au

www.law.uts.edu.au

Applicants are encouraged to visit the UTS: Graduate Research School website at:

www.gradschool.uts.edu.au

C02029v4 Doctor of Philosophy

Award(s): Doctor of Philosophy (PhD)
CRICOS code: 009469A
Course EFTSL: 4
Location: City campus

Note(s)

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Information Technology or the UTS: Graduate Research School for further details.

Overview

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

The course enables students to advance themselves in their career in computing and information technology. It offers flexibility in the choice of topic of research so it may be closely aligned with students' professional careers.

Admission requirements

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Applicants’ previous qualifications must have a major computing component. Before submitting a formal application for admission to this course, applicants should first seek the approval of a potential supervisor for their proposed research work.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study.

UTS: Information Technology has a strong preference for research work that proceeds at a full-time pace. However, this preference should not be seen as a deterrent to those students who wish to remain in employment. Students who are working full time are encouraged to select a topic for their research which is closely aligned with their professional work.

Course structure

There are three specific stages to the doctoral program to frame and support the progress of the candidate and their study.

The doctoral program includes the formalisation and/or introduction of a number of introductory and advanced modules, including subjects covering research preparation and research methods, to support the research and professional development of the student.

Research student progress is supported and reviewed through a doctoral study plan (DSP). Students design their own DSP in consultation with their supervisor(s). In the first stage the DSP is based on the student’s academic and professional background and his or her goals. The second and third stages are based on the progress of his or her study. Candidates are assessed prior to advancing to the next stage of their candidature and submit, in consultation with their supervisor(s), a review of progress at the end of each semester. Candidates are required to submit a thesis for examination under the supervision of their supervisor(s).

Course completion requirements

Select one of the following:

32986 PhD Thesis: Information Systems
33874 PhD Thesis: Software Engineering
32903 PhD Thesis: Analytics
32144 Technology Research Preparation 6cp
32931 Technology Research Methods 6cp

Other information

Further information is available from the UTS: Graduate Research School at:

telephone +61 2 9514 1336

www.gradschool.uts.edu.au

or from UTS: Information Technology at: Research Administration Officer

telephone +61 2 9514 4460

email Craig.Shuard@uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C02030v3 Doctor of Philosophy

Award(s): Doctor of Philosophy (PhD)
CRICOS code: 009443G
Course EFTSL: 4
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Science or the UTSGRS for further details.

Overview
The PhD is a University-wide degree that involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

The PhD provides an opportunity for graduates to acquire high-level research skills and substantially deepen their knowledge in an area of science.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Selection criteria for admission include the quality of the research project proposal, the faculty’s ability to offer appropriate supervision in the applicant’s chosen field and, where necessary, demonstration of necessary technical skills.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

Course structure
Candidates are required to complete a thesis, under the supervision of appropriate members of academic staff. A formal course of study or other work may also be prescribed.

Candidates are required to submit, in consultation with their supervisor(s), a progress report at the end of each semester, and to complete a doctoral assessment and seminar.

Course completion requirements
34980 PhD Thesis: Mathematics

Other information
Further information is available from:
Office of the Associate Dean (Research and Development)
telephone +61 2 9514 2490
fax +61 2 9514 1656
email science.research@uts.edu.au

C02031v3 Doctor of Philosophy

Award(s): Doctor of Philosophy (PhD)
CRICOS code: 008663G
Course EFTSL: 4
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Science or the UTSGRS for further details.

Overview
The PhD is a University-wide degree that involves an intense period of supervised study and research culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

The PhD provides an opportunity for graduates to acquire high-level research skills and substantially deepen their knowledge in an area of science.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Selection criteria for admission include the quality of the research project proposal, the faculty’s ability to offer appropriate supervision in the applicant’s chosen field and, where necessary, demonstration of necessary technical skills.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

Course structure
Candidates are required to complete a thesis, under the supervision of appropriate members of academic staff. A formal course of study or other work may also be prescribed.

Candidates are required to submit, in consultation with their supervisor(s), a progress report at the end of each semester, and to complete a doctoral assessment and seminar.

Course completion requirements
60986 PhD Thesis: Science

Other information
Further information is available from:
Office of the Associate Dean (Research and Development)
telephone +61 2 9514 2490
fax +61 2 9514 1656
email science.research@uts.edu.au
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.

www.gradschool.uts.edu.au

email ugs@uts.edu.au

telephone +61 2 9514 1336

Applicants may also contact the UTS: Graduate Research School on:

telephone +61 2 9514 4950

Further information is available from the Institute for Sustainable Futures or the UTS: Graduate Research School for further details.

Overview

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation. It is offered to both local and international students.

Graduates from the PhD have consistently achieved excellent examiners' reports from international leaders in their fields. Most have been eligible for the UTS Chancellor's Award, and several have been placed on the Chancellor's List.

Course aims

The institute aims to support students taking a trans-disciplinary or interdisciplinary approach to research while building on their existing expertise.

Admission requirements

Applicants must have completed a UTS recognised master's degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study.

Course structure

This research degree is undertaken wholly by thesis.

Course completion requirements

95582 PhD Thesis: Sustainable Futures

Other information

Further information is available from the Institute for Sustainable Futures on:

telephone +61 2 9514 4950

e-mail is@uts.edu.au

www.isf.uts.edu.au

Applicants may also contact the UTS: Graduate Research School on:

telephone +61 2 9514 1336

e-mail ugs@uts.edu.au

www.gradschool.uts.edu.au

Note(s)

Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact the Institute for Sustainable Futures or the UTS: Graduate Research School for further details.

This course is only offered offshore. It is available in China. The language of tuition is English or Modern Standard Chinese.

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: International Studies or the UTS: Graduate Research School for further details.

Career options

The research degrees offered by UTS: International Studies are especially valuable for those wishing to pursue an academic career or a career in research.

Admission requirements

Applicants must have completed a UTS recognised master’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Each applicant should, prior to application, discuss their proposed thesis topic with the UTS: International Studies research coordinator to determine whether supervision is possible.

In addition to completing the University’s application form, PhD applicants must provide the following:

- evidence of their ability to undertake advanced original research, appropriate to the proposed doctoral program. This may include previous research at honours and/or master’s level, experience as a research team member, or professional practice involving systematic inquiry or advanced scholarship. Applicants should include a list of their published work, if appropriate
- project proposal: the proposal is to be 1500-2000 words and should include a statement of the problem, research question or area of investigation; a discussion of the relevant literature; an outline of the methodological approach; and a justification of the importance of the research.

Information and application forms are available in English and Chinese.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: A; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

Course duration and attendance

The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

Students, in general, are not required to attend classes. However, regular contact is maintained with the supervisor(s) throughout the candidate's enrolment.

Candidates who are resident in China and who have difficulty travelling to Sydney can receive supervision in China through periodic visits by their supervisor, email contact and cooperation with a local university.

Course structure

The research degree is undertaken wholly by thesis. A doctoral thesis is normally a work of 80,000-100,000 words and is examined by three appropriate examiners, at least two of whom are external to UTS.
UTS: International Studies has the capacity to supervise theses in the fields of cultural diversity, social change, contemporary culture, politics, and modern history in China, Japan, Europe and the Americas.

The degree is structured in three phases. Phase 1 involves the development of a number of advanced research skills and capabilities. At the beginning of the program, each student negotiates a doctoral study plan with their supervisor. This plan makes explicit the kinds of support each student requires. A formal doctoral assessment is undertaken at the end of Phase 1 in which the candidates present a full proposal for assessment, which is a prerequisite for entering Phase 2. In Phase 2, students develop their individual program of research, culminating in Phase 3 in the preparation and submission of a major thesis which makes a sustained contribution to knowledge in their field of inquiry.

Research and development activities are provided throughout the three phases to assist students to develop the capabilities of a successful doctoral graduate.

Course completion requirements
979105 PhD Thesis: International Studies

Other information
Further information is available from the research degrees administrator:
email ming.ling@uts.edu.au

C02041v4 Doctor of Philosophy
Award(s): Doctor of Philosophy (PhD)
CRICOS code: 015943G
Course EFTSL: 4
Location: City or Kuring-gai campuses

Notes
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Education or the UTS: Graduate Research School for further details.

Overview
The Doctor of Philosophy is designed to meet the needs of those who wish to pursue a career in research or academic life. In this program, candidates embark on high-level research in one of the areas of research strength within UTS: Education.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Previous qualifications must be in education or a related discipline.

Applicants are required to provide UTS: Education with a copy of a previously completed thesis, piece of substantial academic writing or research report as part of their evidence of academic record. The research topic must be aligned with a research area of the faculty. The applicant must also provide an outline and background to the intended area of research, making a case for its significance and importance, and explaining its connection to a research area of the Faculty of Arts and Social Sciences.

Selection criteria includes the quality of the research proposal and the faculty’s ability to offer appropriate supervision in the applicant’s chosen field.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: A; or PTE: 65-72; or CAE: 67-73 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study. Students can complete in less than the maximum time.

For all courses involving a major thesis there is provision for early submission of the thesis on application. A candidate who wishes to extend candidature must seek permission from the UTS: Graduate Research School Board.

Course structure
The course is structured in three phases. Phase 1 involves the development of a number of advanced research skills and capabilities. At the beginning of the program, each student negotiates a doctoral study plan with their supervisor. This plan makes explicit the kinds of support each student requires. A formal doctoral assessment is undertaken at the end of Phase 1 in which the candidate presents a full proposal for assessment, which is a prerequisite for entering Phase 2. In Phase 2, students develop their individual program of research, culminating in Phase 3 in the preparation and submission of a major thesis which makes a sustained contribution to knowledge in their field of inquiry.

Research and development activities are provided throughout the three phases to assist students to develop the capabilities of a successful doctoral graduate in education.

Course completion requirements
019982 PhD Thesis: Education

Other information
Further information is available from the research degrees administrator:
email Margaret McGrath@uts.edu.au

C02047v1 Doctor of Philosophy
Award(s): Doctor of Philosophy (PhD)
CRICOS code: 058666A
Course EFTSL: 4
Location: City campus

Notes
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Information Technology or the UTS: Graduate Research School for further details.

Overview
The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

The course enables students to advance themselves in their career in computing and information technology. It offers flexibility in the choice of topic of research so it may be closely aligned with students’ professional careers.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Previous qualifications must have a major computing component. Applicants should first seek the approval of a potential supervisor for their proposed research work.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying...
on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

UTS: Information Technology has a strong preference for research work that proceeds at a full-time pace. However, this preference should not be seen as a deterrent to those students who wish to remain in employment. Students who are working full time are encouraged to select a topic for their research which is closely aligned with their professional work.

Course structure
There are three specific stages to the doctoral program to frame and support the progress of the candidate and their study.

The doctoral program includes the formalisation and/or introduction of a number of introductory and advanced modules, including subjects covering research preparation and research methods, to support the research and professional development of the student.

Research student progress is supported and reviewed through a doctoral study plan (DSP). Students design their own DSP in consultation with their supervisor(s). In the first stage the DSP is based on the student’s academic and professional background and his or her goals. The second and third stages are based on the progress of his or her study. Candidates are assessed prior to advancing to the next stage of their candidature and submit, in consultation with their supervisor(s), a review of progress at the end of each semester. Candidates are required to submit a thesis for examination under the supervision of their supervisor(s).

Course completion requirements
33875 PhD Thesis: Computer Systems
32144 Technology Research Preparation 6cp
32931 Technology Research Methods 6cp

Other information
Further information is available from the UTS: Graduate Research School at:
[Contact information]

C02048v3 Doctor of Philosophy
Award(s): Doctor of Philosophy (PhD)
CRICOS code: 058221G
Course EFTSL: 4
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact UTS: Business or the UTS: Graduate Research School for further details.

Overview
The PhD is a University-wide degree that involves an intense period of supervised study and research. The degree of Doctor of Philosophy is awarded to successful candidates who have made a distinct contribution to knowledge, whether by original investigation, review or criticism.

With accreditation from the Association to Advance Collegiate Schools of Business (AACSB) International, UTS Business School is one of a select few elite business schools worldwide. Many UTs Business School staff are leaders in their fields both academically and in industry, working as senior staff or consultants, or with strong links to major corporations.

The UTS Business School PhD program recognises that certain core skills are critical to the successful completion of world-class research. The PhD program provides the opportunity for candidates to receive training in advanced disciplinary and cross-disciplinary methods which provide the basis on which candidates are able to build research capability. PhD students are supervised by a committee of three, with a chairperson normally located in the discipline most fundamental to the candidate’s doctoral research. Interdisciplinary research is encouraged, and PhD committees can include researchers from cognate or other disciplines beyond where the candidate is located.

Career options
Career options include management-level positions in industry or government, and academic positions.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must be in business or a related discipline. Each applicant is required, prior to application, to discuss a potential thesis area with the relevant school research coordinator who then advises whether appropriate supervisors and resources are available. Applicants are also required to submit a brief thesis proposal or statement of research interest with their application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66 Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

Course structure
Candidates are required to complete a thesis of approximately 50,000-70,000 words, under the supervision of a University-appointed supervisor. Candidates may also be required to undertake some coursework. During their candidature, students’ progress is monitored via a doctoral assessment and regular progress reports.

Course completion requirements
Select one of the following:
21982 PhD Thesis: Management
22982 PhD Thesis: Accounting
24982 PhD Thesis: Marketing
23926 PhD Thesis: Economics
25927 PhD Thesis: Finance

Other information
Further information is available from the UTS: Graduate Research School at:
[Contact information]
C02050v1 Doctor of Education
Award(s): Doctor of Education (EdD)
CRICOS code: 046824C
Course EFTSL: 4
Location: City campus

Notes
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact the faculty or the UTS: Graduate Research School for further details.

Overview
The Doctor of Education is designed to meet the needs of practitioners who wish to research some aspect of their field of practice. Candidates embark on high-level, practice-based research into one of the areas of research strength in UTS: Education.

The course caters not only for students committed to an academic path, but for senior practitioners from public and private sectors who wish to study and undertake research at the highest level.

Course aims
The purpose of the course is to enhance the practitioner’s capacity to question, analyse, critique and develop their profession and its practices. It is a research degree whose purpose is to assist professionals to develop a relationship between research and their professional activities, in areas such as policy development and appraisal, innovation and administration.

Career options
Career options include leadership roles in the education field as a principal, manager, planner, policy adviser, teacher or trainer, in a government, industrial, commercial or community setting.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must be in education or a related discipline. Applicants are required to provide UTS: Education with a copy of a previously completed thesis, piece of substantial academic writing or research report as part of their evidence of academic record. Applicants must also develop a brief research proposal that indicates a scope and standard appropriate to an educational doctoral degree.

Selection criteria also includes the faculty’s ability to offer appropriate supervision in the applicant’s chosen field.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall appropriate to an educational doctoral degree.

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

This course is normally completed on a part-time basis, taking between three and four-and-a-half years. Students continue their professional work while they study. There is provision for early submission of the thesis on application.

Course structure
The course is structured into three phases. Phase 1 (the first two semesters) involves a structured foundation and research development workshops, in which participants work collaboratively with their supervisors, other academics and fellow students to develop their research proposals. Students can enter the course having professional experience as well as having demonstrated potential to do research. There are specific skills and capabilities required of doctoral level research and study, which are systematically developed through these workshops, with a particular focus on researching practice and on the development of a portfolio. A formal doctoral assessment is undertaken at the end of Phase 1 in which candidates present a full proposal for assessment, which is a prerequisite for entering Phase 2.

In Phase 2, candidates develop their individual program of research which culminates in Phase 3 in a sustained contribution to some aspect of professional practice and which is presented in a portfolio of outcomes. Each portfolio is developed according to a negotiated process with supervisors, and is accompanied by a statement establishing the scale and standard of work. Candidates participate in a range of research and development activities throughout this phase to assist them in developing the capabilities of a successful doctoral graduate in education.

Course completion requirements
019950 EdD Thesis: Education

Other information
Further information is available from the research degrees administrator:
email Margaret.McGrath@uts.edu.au

C02051v1 Doctor of Project Management
Award(s): Doctor of Project Management (DPM)
CRICOS code: 045835G
Course EFTSL: 3
Location: City campus

Overview
This course combines coursework subjects and original research culminating in a doctoral dissertation. Candidates develop their doctoral topic through the coursework component. The dissertation must have a project, program or portfolio management focus and analysis representing an original investigation, criticism or review of a project, program and portfolio management of a standard suitable for publication.

The research can be undertaken in a variety of industries and applications such as product development, information and communication systems, innovation and technology, defense, construction, health, planning, property development, architecture and design and organisational change. Research related to finding solutions for problems at a workplace informed by rigorous research is encouraged.

This program is one of the few professional doctorates in project management in Australia. It counters the isolation experienced by many PhD doctoral candidates by providing a combination of postgraduate coursework subjects and a dissertation, and allows candidates to benefit from contact with coursework students and UTS: Design Architecture and Building.

Career options
Career options include project management consultancy, senior management positions in project management and consultancy organisations, positions in universities, undertaking research, or other academic work, including teaching and research supervision.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

At least five years of industry experience in project management or senior management positions is expected, as the research requires a good understanding of organisational issues. Support for the project, availability of supervision, availability of places, availability of facilities at UTS, the applicant’s overall abilities and experience and report of the academic referees submitted with the application are all taken into account.

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Applications

Applicants must submit a research proposal at the point of application. Once final approval is obtained for a research proposal, the topic cannot be changed except with the approval of the University. A research proposal should be submitted along with the application as detailed at:

www.research.uts.edu.au/future-students/apply.html

Local students

Information about the application process can be found at:


International students

International students can find details on how to apply for study at UTS at:

www.uts.edu.au/international/prospective/studying/apply

The international postgraduate student application form is available to download at:

www.uts.edu.au/international/docs/apply-pg.pdf

Credit recognition

Suitably qualified applicants may be given up to 36 credit points of exemptions for coursework subjects.

Further details are available at:


Course duration and attendance

The standard course duration is three years of full-time (six semesters) or six years of part-time (12 semesters) study (the maximum course duration is four years of full-time or eight years of part-time study).

Each coursework subject involves block attendance on campus of nominally five days duration. Prior to this period, there are preparatory tasks supported by online resources and participation, and following this period students are required to complete individual assessment tasks, again using online support from teaching staff. The research methodology subjects are taught online.

The research component comprises regular meetings with the allocated supervisor, face-to-face for local students on campus, and using communication and collaboration technologies for students doing this research from an approved overseas location. Students located overseas are required to come to UTS for their first assessment and will have a local supervisor allocated to them accessible for face-to-face meetings where they are located.

Course structure

The course comprises one-third coursework subjects and two-thirds research thesis.

From Autumn 2010, this course requires completion of two compulsory 6-credit-point research methodology subjects, six 6-credit-point Master of Project Management (C00406) (see page 300) postgraduate coursework subjects chosen from CBK90605, and a dissertation of approximately 50,000 to 75,000 words.

With prior approval from the allocated supervisor and the course director, up to a maximum of two of the postgraduate coursework subjects can be substituted with subjects from other UTS faculties, provided these subjects help the candidate formulate and conduct their research.

While the DPM thesis may be shorter than a PhD thesis, taking account of the coursework component, it is expected to exhibit the same level of originality, criticism and intellectual rigour normally associated with a PhD thesis. Being a professional doctorate, the research is also expected to contribute to professional practice.

Both the candidate and the candidate’s principal supervisor are required to submit progress reports at the end of each semester following commencement of the dissertation. Within the first year of commencement for full-time students, or one-and-a-half years for part-time students, candidates must complete a formal doctoral assessment to ensure they are gaining the prerequisite knowledge and skills to allow successful and timely completion of the proposed research program; that their progress is consistent with completion of the research program in the prescribed time; and that they demonstrate the potential to complete the work to standard.

Course completion requirements

15462 Introduction to Research
15463 The Research Process
15464 Doctoral Thesis: Project Management

Select 36 credit points from the following options:

15330 Program Management
15336 Systems Thinking for Managers
15346 Governance and Leadership of Project Management
15347 The Project Organisation: A New Organisational Model
15327 Managing Project Complexity
15338 Realising Project Benefits
15325 Value Management, Negotiation and Conflict Management
15356 Reflective Project Practice
15326 Project Management Practicum

Other information

Further information is available from the Building 6 Student Centre on:

telephone 1300 ask UTS (1300 275 887)
or +61 2 9514 1222

Ask UTS www.ask.uts.edu.au

or from the UTS: Graduate Research School on:

telephone +61 2 9514 1336

email ugs@uts.edu.au

www.gradschool.uts.edu.au

CO2052v1 Doctor of Nursing

Award(s): Doctor of Nursing (DN)
CRICOS code: 023319A
Course EFTSL: 4
Location: City campus

Note(s)

This course is not new for the course available in 2013. For further information contact the research administrator in UTS: Health.

Overview

UTS: Health’s research degrees are highly regarded, both nationally and internationally. Candidates for the Doctor of Nursing have the opportunity to integrate a research focus within a framework of policy development, leadership and international practice. Graduates from a Doctor of Nursing can lead in the development of practice and take their place in disciplinary research projects.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. When students enrol, they become part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

Career options

The Doctor of Nursing prepares nurses for leadership positions within the profession. Opportunities are not limited to Australia and there is the possibility of developing a career on an international level.

Admission requirements

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.
Applicants are required to have authorisation to practise as a registered nurse and substantial professional/administrative experience as evidenced by their professional portfolio. Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is four years of full-time or eight years of part-time study.

Subjects are run in intensive mode, with an additional online component. All research students are expected to attend the twice-yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

**Course structure**

This degree is a structured program of study and research related to the development and extension of professional practice, culminating in the presentation of a research portfolio for examination. It includes an emphasis on the extension and leadership development of both practice and practitioners in local, national and international contexts.

Students are required to undertake a candidacy assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. During candidacy students complete research preparation subjects and subjects examining the program themes, as well as their selected research projects. Students work closely with a principal supervisor and a supervisory panel and are required to report on their progress each semester.

**Course completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>92981</td>
<td>D Nursing Dissertation</td>
<td>6cp</td>
</tr>
<tr>
<td>93002</td>
<td>Knowledge Utilisation and Policy in Health Services and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>93003</td>
<td>Research Inquiry: Processes and Practices</td>
<td>6cp</td>
</tr>
<tr>
<td>93004</td>
<td>Research Design and Analysis in Health Services and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>93005</td>
<td>Leading Change in Health Services and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Course program**

The program for the coursework component appears below.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>93003</td>
<td>Research Inquiry: Processes and Practices</td>
<td>6cp</td>
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</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>93004</td>
<td>Research Design and Analysis in Health Services and Practice</td>
<td>6cp</td>
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</tbody>
</table>

**Year 2**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>93002</td>
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</table>

**Spring semester**

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<thead>
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<tbody>
<tr>
<td>93005</td>
<td>Leading Change in Health Services and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Other information**

Further information is available from:
Research administration officer
telephone: +61 2 9514 4834
email: nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate School:
www.gradschool.uts.edu.au

**C02053v1 Doctor of Midwifery**

**Award(s):** Doctor of Midwifery (DMd)

**CRICOS code:** 03255G

**Course EFTSL:** 4

**Location:** City campus

**Note(s):**

This course is not available for new admissions in 2013. For further information contact the research administrator in UTS: Health.

**Overview**

UTS: Health’s research degrees are highly regarded, both nationally and internationally. Candidates for the Doctor of Midwifery have the opportunity to integrate a research focus within a framework of policy development, leadership and international practice. Graduates from a Doctor of Midwifery can lead in the development of practice and take their place in disciplinary research projects. This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. When students enrol, they become part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

**Career options**

This course prepares midwives for leadership positions within the profession. Opportunities are not limited to Australia and there is the possibility of developing a career on an international level.

**Admission requirements**

Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Applicants are required to have authorisation to practise as a registered midwife and have substantial professional/administrative experience as evidenced by their professional portfolio. Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with a writing score of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is four years of full-time or eight years of part-time study.

Subjects are run in intensive mode, with an additional online component. All research students are expected to attend the twice-yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

**Course structure**

This degree is a structured program of study and research related to the development and extension of professional practice, culminating in the presentation of a research portfolio for examination. It includes an emphasis on the extension and leadership development of both practice and practitioners in local, national and international contexts. Students are required to undertake a candidacy assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. During candidacy students complete research preparation subjects and subjects examining the program themes, as well as their selected research projects. Students work closely with a principal supervisor and a supervisory panel and are required to report on their progress each semester.

**Course completion requirements**

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<td>93004</td>
<td>Research Design and Analysis in Health Services and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>93005</td>
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<td>6cp</td>
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</tbody>
</table>

**Course program**

The program for the coursework component appears below.

**Year 1**

**Autumn semester**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>93003</td>
<td>Research Inquiry: Processes and Practices</td>
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</table>

**Spring semester**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>93004</td>
<td>Research Design and Analysis in Health Services and Practice</td>
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**Year 2**

**Autumn semester**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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<td>93002</td>
<td>Knowledge Utilisation and Policy in Health Services and Practice</td>
<td>6cp</td>
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</tbody>
</table>

**Spring semester**

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<thead>
<tr>
<th>Code</th>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>93005</td>
<td>Leading Change in Health Services and Practice</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Other information**

Further information is available from:
Research administration officer
telephone: +61 2 9514 4834
email: nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate School:
www.gradschool.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
and a supervisory panel and are required to report on their progress each semester.

Course completion requirements
92980  D Midwifery Dissertation  6cp
93002  Knowledge Utilisation and Policy in Health Services and Practice  6cp
93003  Research Inquiry: Processes and Practices  6cp
93004  Research Design and Analysis in Health Services and Practice  6cp
93005  Leading Change in Health Services and Practice  6cp

Course program
The program for the coursework component appears below.

Year 1
Autumn semester
93003  Research Inquiry: Processes and Practices  6cp
Spring semester
93004  Research Design and Analysis in Health Services and Practice  6cp

Year 2
Autumn semester
93002  Knowledge Utilisation and Policy in Health Services and Practice  6cp
Spring semester
93005  Leading Change in Health Services and Practice  6cp

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

C02054v1 Doctor of Health Services
Award(s): Doctor of Health Sciences (DHS)
CRICOS code: 066311F
Course EFTSL: 4
Location: City campus

Note(s)
This course is not available for new admissions in 2013. For further information contact the research administrator in UTS: Health.

Overview
UTS: Health’s research degrees are highly regarded, both nationally and internationally. Candidates for the Doctor of Health Services have the opportunity to integrate a research focus within a framework of policy development, leadership and international practice. Graduates from a Doctor of Health Services can lead in the development of health service delivery and management and take their place in disciplinary research projects.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. When students enrol, they become part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

Career options
The Doctor of Health Services prepares health professionals for leadership positions within the profession. Opportunities are not limited to Australia and there is the possibility of developing a career on an international level.

Admission requirements
Applicants are required to have a position in the health services sector and substantial professional/administrative experience as evidenced by their professional portfolio. Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 25; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study.

Subjects are run in intensive mode, with an additional online component. All research students are expected to attend the two-yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

Course structure
This degree is a structured program of study and research related to the development and extension of professional practice, culminating in the presentation of a research portfolio for examination. It includes an emphasis on the extension and leadership development of both practice and practitioners in local, national and international contexts. Students are required to undertake a candidature assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. During candidature, students complete research preparation subjects and subjects examining the program themes, as well as their selected research projects. Students work closely with a principal supervisor and a supervisory panel, and are required to report on their progress each semester.

Course completion requirements
92979  Health Services Dissertation  6cp
93002  Knowledge Utilisation and Policy in Health Services and Practice  6cp
93003  Research Inquiry: Processes and Practices  6cp
93004  Research Design and Analysis in Health Services and Practice  6cp
93005  Leading Change in Health Services and Practice  6cp

Course program
The course program is shown below.

Year 1
Autumn semester
93003  Research Inquiry: Processes and Practices  6cp
Spring semester
93004  Research Design and Analysis in Health Services and Practice  6cp

Year 2
Autumn semester
93002  Knowledge Utilisation and Policy in Health Services and Practice  6cp
Spring semester
93005  Leading Change in Health Services and Practice  6cp

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail nmhresearch.StudentsAdmin@uts.edu.au
and from the University Graduate School:
www.gradschool.uts.edu.au

Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
The Doctor of Education is designed to meet the needs of practitioners who wish to research some aspect of their field of practice. Candidates embark on high-level, practice-based research into one of the areas of research strength in UTS: Education.

The course caters not only for students committed to an academic path, but for senior practitioners from public and private sectors who wish to study and undertake research at the highest level.

Course aims
The purpose of the course is to enhance the practitioner’s capacity to question, analyse, critique and develop their profession and its practices. It is a research degree whose purpose is to assist professionals to develop a relationship between research and their professional activities, in areas such as policy development and appraisal, innovation and administration.

Career options
Career options include leadership roles in the education field as a principal, manager, planner, policy adviser, teacher or trainer, in a government, industrial, commercial or community setting.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must be in education or a related discipline. Applicants are required to provide UTS: Education with a copy of a previously completed thesis, piece of substantial academic writing or research report as part of their evidence of academic record. Applicant must also develop of a brief research proposal that indicates a scope and standard appropriate to an educational doctoral degree.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: A; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

This course is normally completed on a part-time basis, taking between three and four-and-a-half years. Students continue their professional work while they study. There is provision for early submission of the thesis on application.

Course structure
The course is structured into three phases. Phase 1 involves a structured foundation of research development workshops, in which participants work collaboratively with their supervisors, other academics and fellow students to develop their research proposals. Students can enter the course having professional experience as well as having demonstrated potential to do research. There are specific skills and capabilities required of doctoral level research and study, which are systematically developed through these workshops, with a particular focus on researching practice and on the development of a portfolio. A formal doctoral presentation is undertaken at the end of Phase 1 in which candidates present a full proposal for evaluation, which is a prerequisite for entering Phase 2.

In Phase 2, candidates develop their individual program of research which culminates in Phase 3 in a sustained contribution to some aspect of professional practice and which is presented in a portfolio of outcomes. Each portfolio is developed according to a negotiated process with supervisors, and is accompanied by a statement establishing the scale and standard of work. Candidates participate in a range of research and development activities throughout this phase to assist them in developing the capabilities of a successful doctoral graduate in education.

Course completion requirements
019950 EdD Thesis: Education

Other information
Further information is available from the research degrees administrator:
email Margaret.McGrath@uts.edu.au

The Doctor of Philosophy is a research degree requiring an original and significant contribution to knowledge. It is the traditional path for those wishing to assume leadership positions in research. It requires students to undertake a large research project under academic supervision.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcome-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. When students enrol, they become part of a lively and vigorous research culture, working closely with academic staff and professionals from the pharmacy and healthcare industries.

Career options
This degree prepares candidates for leadership positions in teaching, management and research. Opportunities are not limited to Australia and there is the possibility of developing a career on an international level.

Admission requirements
Applicants must have completed a UTS recognised master’s by research or bachelor’s degree with first or second class honours (division 1), or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is four years of full-time or eight years of part-time study. Students can complete the course in less than the maximum time.

Course completion requirements
95589 PhD Thesis: Pharmacy

Other information
For further information, contact UTS: Pharmacy:
email pharmacy@uts.edu.au
www.pharmacy.uts.edu.au
C03001v3 Master of Architecture (Research)

Award(s): Master of Architecture (MArch)
CRICOS code: 008672F
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact a UTS Student Centre or the UTS: Graduate Research School for further details.

Overview
A limited number of places are offered each year to suitably qualified students to follow a program of study leading to this award. This degree is for graduates seeking to extend and deepen their knowledge by undertaking an appropriate research investigation under professional supervision by UTS: Design, Architecture and Building academic staff.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
The requirement of this degree is the preparation of a thesis which is judged by its examiners to be a distinct contribution to the knowledge of the subject. The format of the body of work and the length of the written dissertation are determined after discussion with UTS: Design, Architecture and Building staff and must be approved by the Graduate Studies Committee. Candidates may be required to first undertake coursework subjects in research methodology to gain experience with research methods and skills. Candidates are required to present papers, which form part of the preparation of their thesis, at UTS: Design, Architecture and Building postgraduate seminars.

Course completion requirements
13905 Thesis (Architecture)

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
or from the UTS: Graduate Research School on: telephone +61 2 9514 1336
email ugs@uts.edu.au
www.gradschool.uts.edu.au

C03002v4 Master of Built Environment (Research)

Award(s): Master of Built Environment (MBuiltEnv)
CRICOS code: 008674D
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact a UTS Student Centre or the UTS: Graduate Research School for further details.

Overview
A limited number of places are offered each year to suitably qualified students to follow a program of study leading to this award. This degree is for graduates seeking to extend and deepen their knowledge by undertaking an appropriate research investigation under professional supervision by UTS: Design, Architecture and Building academic staff.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full-time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
The requirement of this degree is the preparation of a thesis which is judged by its examiners to be a distinct contribution to the knowledge of the subject. The format of the body of work and the length of the written dissertation are determined after discussion with UTS: Design, Architecture and Building staff and must be approved by the Graduate Studies Committee. Candidates may be required to first undertake coursework subjects in research methodology to gain experience with research methods and skills. Candidates are required to present papers, which form part of the preparation of their thesis, at UTS: Design, Architecture and Building postgraduate seminars.

Course completion requirements
Select one of the following:
14903 Thesis (Building)
15903 Thesis (Quantity Surveying)

Other information
Further information is available from the Building 6 Student Centre on: telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
or from the UTS: Graduate Research School on: telephone +61 2 9514 1336
email ugs@uts.edu.au
www.gradschool.uts.edu.au
C03012v3 Master of Design (Research)

Award(s): Master of Design (MDesign)
CRICOS code: 030867M
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored basis for permanent residents or on a full-fee-paying basis for international students. Contact a UTS Student Centre or the UTS: Graduate Research School for further details.

Overview
This degree is for graduates who want to deepen their understanding and hands-on skills in both research-for-design and research-by-design as a way to define the future of the design profession. Design challenges are becoming more and more complex: digitisation, globalisation, the growing importance of services and the shift towards culturally and socially intelligent design means that the profile and role of the designer are changing. Research for design and researching through design experiments are becoming part of new design practice. In this course, students are challenged to develop a deep understanding of what this means for them as practising designers. They are trained in the insights and hands-on skills to do the various types of research that are becoming all-important in modern design practice.

Career options
Graduates are the new guard of academically trained designers who have deepened their insight into where design is going, and can offer employers the combination of design and research skills that they need for their long-term prosperity. There is also a clear path from this degree towards a more research-focused career, either in industry or in academia.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0, or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21, or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
The requirement of this degree is the preparation of a thesis which is judged by its examiners to be a distinct contribution to the knowledge of the subject. The format of the body of work and the length of the written dissertation are determined after discussion with UTS: Design, Architecture and Building staff and must be approved by the Graduate Studies Committee.
Candidiates may be required first to undertake coursework subjects in research methodology to gain experience with research methods and skills. Candidates are also required to present papers, which form part of the preparation of their thesis, at the UTS: Design, Architecture and Building postgraduate seminars.
Specialisations are generally available within the areas of fashion and textile, industrial, interior and visual communication design, subject to supervisor availability.

Course completion requirements
81821 Thesis (Design)

Further study at UTS
This course can articulate into a PhD program of advanced research.

Other information
Further information is available from the Building 6 Student Centre on:
telephone 1300 ask UTS (1300 275 887) or +61 2 9514 1222
Ask UTS www.ask.uts.edu.au
www.dab.uts.edu.au
or from the UTS: Graduate Research School on:
telephone +61 2 9514 1336
e-mail ugs@uts.edu.au
www.gradschool.uts.edu.au

C03017v2 Master of Engineering (Research)

Award(s): Master of Engineering (ME)
CRICOS code: 09468B
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Engineering or the UTS: Graduate Research School for further details.

Overview
This degree may be awarded to candidates who have completed an individual program of supervised work and submitted a thesis embodying the results. Topics which involve close cooperation with industry are strongly encouraged, and a majority of current candidates are engaged in topics which are actively supported by their employers. This degree provides practising engineers with an opportunity to pursue, in depth, the solution of an engineering problem which requires individual effort beyond the scope of a bachelor's degree. In keeping with the faculty's overall policies, the accent is on applied research and development work, although basic research proposals are also welcomed and supported.

Career options
Career options include positions in universities and other institutions undertaking research or other academic work including teaching. Opportunities involving research and development also exist with national and international firms.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.
Candidiates may commence their studies from January or July in any given year and the work may be carried out either using faculty
facilities or in an industrial location. Candidates who are specially qualified in the relevant discipline may be allowed to complete the program in less than the maximum time.

Course structure
The Master of Engineering is undertaken by candidates who complete a thesis on a topic of their choice, which has been approved by the University. The thesis must make a distinct contribution to knowledge in the area covered. Its contents may report the results of an original investigation or review, or criticise some aspect of engineering knowledge, or present an engineering design or solution involving the application of new or known techniques to an engineering problem of significance. There are no coursework subjects in this course. There is a formal assessment of progress at the end of the first two semesters for both full-time and part-time candidates, in accordance with University Rule 11.13.

Course completion requirements
49776 Master of Engineering Thesis

Other information
Further information is available from the Faculty of Engineering and Information Technology Research and Development Office on:
telephone +61 2 9514 2866
e-mail research@eng.uts.edu.au
www.eng.uts.edu.au

C03018v2 Master of Arts in
Humanities and Social Sciences
(Research)
Award(s): Master of Arts (MA)
CRICOS code: 014524G
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Communication or the UTS: Graduate Research School for further details.

Overview
The Master of Arts in Humanities and Social Sciences (Research) provides an opportunity for graduates to develop their research skills, to deepen their knowledge in an area of the social sciences or humanities, and to undertake some original research.

Career options
The research degrees offered by UTS: Communication are especially valuable for those wishing to pursue an academic career, a career in research or an advanced level of professional practice.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Selection criteria include the quality of the research proposal, UTS: Communication’s ability to offer appropriate supervision in the applicant’s chosen field of study, and, where necessary, possession of generic technical skills.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: A; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
This research degree is undertaken wholly or mainly by thesis. A master’s thesis is normally a work of 30,000-40,000 words. Coursework subjects may be prescribed, according to individual student requirements.

While the usual master’s thesis is written in dissertation style, candidates may, if they wish, illustrate their argument by submitting film, video, sound/audio, photography or other formats together with a written dissertation of shorter length. Applicants should contact the research degrees administrator for further information on non-traditional formats for thesis presentation.

Course completion requirements
51984 Master of Arts Thesis

Other information
Further information is available from the research degrees administrator on:
telephone +61 2 9514 4512
e-mail hss.researchdegrees@uts.edu.au

C03024v5 Master of Laws (Research)
Award(s): Master of Laws (LLM)
CRICOS code: 006407F
Course EFTSL: 2
Location: City campus

Overview
The Master of Laws (Research) provides an opportunity for graduates to develop their research skills, to deepen their knowledge in some area of the law and to undertake original research. The degree is awarded to candidates who demonstrate competence in research, an understanding of research method, and make some contribution to knowledge.

This course is suitable for students who have completed a coursework degree and wish to deepen their knowledge in a particular legal area by means of research. Students develop critical and analytical skills and advanced research skills to enable in-depth exploration of their chosen area. This degree is valuable for those wishing to pursue a career in research.

Career options
Career options include positions in universities, undertaking research, contributions to public policy, or other academic work including teaching, submissions to think tanks and interest groups and legal publishing.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must be in a relevant discipline.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
Applications
Applicants must submit a research proposal at the point of application. Once final approval is obtained for a research proposal, the topic cannot be changed except with the approval of the University. Detailed information about the application process can be found at: www.research.uts.edu.au/future-students

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study. Students can complete the course in less than the maximum time. The work may be carried out either on University premises or at a site external to the University, or some combination of both. Candidates are required to make contact with their supervisor(s) at least once a month to discuss the progress of the research being undertaken.

Course structure
Students are required to submit a thesis of approximately 40,000–60,000 words. As part of this course, students must also complete the subject 77697 Higher Degree Research Seminar. The candidate is required to undertake all assessments as part of the Faculty’s Doctoral Framework three-stage program. Within the first stage candidates must complete a formal candidature assessment, and within the second stage candidates must complete a progress confirmation, to ensure their progress is consistent with completion of the research program in the prescribed time and that they demonstrate potential to complete the work to standard.

Information regarding UTS: Law’s key research areas and strengths, and the research interests of staff members, is available at postgraduate research degrees (see page 101).

Course completion requirements
77698 Thesis (Law)
77697 Higher Degree Research Seminar 8cp

Transfer between UTS courses
Candidates in the Master of Laws (Research) who wish to transfer to the PhD but do not meet the PhD admission requirements can apply to transfer. Transfer applicants must have completed a minimum of one year’s study and have reached a standard equivalent to that of a bachelor’s degree with first or second class honours (division 1). Candidates applying to transfer must also demonstrate, with the support of their supervisor(s), that their topic has doctoral scope.

Other information
Further information is available from the faculty research officer: telephone +61 2 9514 3753
fax +61 2 9514 3400
e-mail law.research@uts.edu.au
www.law.uts.edu.au

Applicants are encouraged to visit the UTS: Graduate Research School website at: www.gradschool.uts.edu.au

C03025v3 Master of Science in Computing Sciences (Research)
Award(s): Master of Science (MSc)
CRICOS code: 001121E
Course EFTSL: 2
Location: City campus

Notes
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Information Technology or the UTS: Graduate Research School for further details.

Overview
This course enables graduates to extend and deepen their knowledge in a specialised area of computing by undertaking research under the supervision of a member of academic staff. The course enables students to advance themselves in their career in computing and information technology, and offers flexibility in the choice of research topic so it may be closely aligned with students’ professional careers.

Career options
This course enables graduates to extend and deepen their knowledge of a specialised area of computing by undertaking research. The course enables students to advance themselves in their career in computing and information technology, and offers flexibility in the choice of research topic so it may be closely aligned with students’ professional careers. Career options include positions in universities and other institutions undertaking research or other academic work including teaching. Opportunities involving research and development also exist with national and international firms.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must have a major computing component. Before submitting a formal application for admission to this degree course, applicants should first seek the approval of a potential supervisor for their proposed research work.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

UTS: Information Technology has a strong preference for research work that proceeds at a full-time pace. However, this preference should not be seen as a deterrent to those students who wish to remain in employment. Students who are working full time are encouraged to select a topic for their research which is closely aligned with their professional work.

Course structure
Candidates are required to complete two subjects covering technology research preparation and technology research methods respectively (some candidates may be exempt from completing these subjects). The degree is examined through presentation of a thesis. All thesis students are required to submit, in consultation with their supervisor(s), a progress report at the end of each semester. The UTS: Graduate Research School contacts each student and their supervisor(s) to initiate this process.

Course completion requirements
31675 Thesis (Computing Science) 6cp
32144 Technology Research Preparation 6cp
32931 Technology Research Methods 6cp

Other information
Further information is available from the UTS: Graduate Research School at:
telephone +61 2 9514 1336
www.gradschool.uts.edu.au
or from UTS: Information Technology at:
Research Administration Officer
telephone +61 2 9514 4460
e-mail Craig.Shuard@uts.edu.au
C03026v5 Master of Science in Mathematical Sciences (Research)

Award(s): Master of Science (MSc)
CRICOS code: 022335A
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Science or the UTS: Graduate Research School for further details.

Overview
This course provides an opportunity to acquire research skills and to deepen knowledge in one of the areas of mathematics. The aim of the program is the professional development of candidates through mastery of a substantial body of mathematical literature together with original research work under the guidance of a supervisor.

Career options
Skills in research and the ability to think mathematically are in growing demand in industry, finance and various government organisations. As a consequence, graduates of this course significantly broaden their career choices, and the research topic may be chosen to further facilitate their career paths, for example, in senior levels of market research, quantitative management and quantitative finance.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
Students work under the guidance of a supervisor who is a member of the full-time academic staff of the University. The degree is examined through the presentation of a thesis. Students are also required to present seminars during the time of their enrolment and at the completion of their program. Students may be required to take one or several subjects deemed necessary by their principal supervisor or the Faculty Research Committee.

Course completion requirements
34776 Thesis (Mathematics)

Other information
Further information is available from:
Office of the Associate Dean (Research and Development)
telephone +61 2 9514 2490
fax +61 2 9514 1656
email science.research@uts.edu.au

C03029v3 Master of Science (Research)

Award(s): Master of Science (MSc)
CRICOS code: 030869J
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Science or the UTS: Graduate Research School for further details.

Overview
This course provides an opportunity for graduates to acquire research skills and deepen their knowledge in an area of science.

Course aims
The aim of the program is the professional development of the candidate, providing experience in problem definition, hypothesis formulation and testing, data acquisition, analysis and interpretation, and project presentation.

Career options
Career options include environmental consultant, medical scientist, researcher, resource manager, scientist or technologist.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
Students work under the guidance of a supervisor who is a member of the full-time academic staff of the University. The degree is examined through presentation of a thesis. Students may be required to take a prescribed subject in research methodology or any other subject deemed necessary by their principal supervisor or the Faculty Research Committee.

Course completion requirements
91774 Master of Science Thesis

Other information
Further information is available from:
Office of the Associate Dean (Research and Development)
telephone +61 2 9514 2490
fax +61 2 9514 1656
email science.research@uts.edu.au
C03032v3 Master of Sustainable Futures (Research)
Award(s): Master of Sustainable Futures [Research] [MSF(Res)]
CRICOS code: 028886D
Course EFTSL: 2
Location: City campus

Note(s)
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact the Institute for Sustainable Futures or the UTS: Graduate Research School for further details.

Overview
This degree involves a period of supervised study and research, culminating in the submission of a thesis. It is offered to both local and international students.

Graduates from the master’s have consistently achieved excellent examiners’ reports from international leaders in their fields. Most have been eligible for the UTS Chancellor’s Award, and several have been placed on the Chancellor’s List.

Course aims
The institute aims to support students taking a trans-disciplinary or interdisciplinary approach to research while building on their existing expertise.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Previous qualifications must be in a relevant field. Submission of a brief research proposal is also required.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-80 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
This research degree is undertaken wholly by thesis.

Course completion requirements
95583 Master of Sustainable Futures Thesis

Other information
Further information is available from the Institute for Sustainable Futures on:
telephone +61 2 9514 4950
email isf@uts.edu.au
www.isf.uts.edu.au
Applicants may also contact the UTS: Graduate Research School on:
telephone +61 2 9514 1336
email ugs@uts.edu.au
www.gradschool.uts.edu.au

C03034v2 Master of Arts in International Studies (Research)
Award(s): Master of Arts in International Studies [MA]
CRICOS code: 043338G
Course EFTSL: 2
Location: City campus and China

Note(s)
This course is only offered offshore. It is available in China. The language of tuition is English.

Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: International Studies or the UTS: Graduate Research School for further details.

Overview
This degree offers an opportunity for graduates to develop their research skills, to deepen their knowledge in some area of international study and to undertake some original, independent research.

The Faculty of Arts and Social Sciences has strong expertise in China studies. University rules allow for the submission of a thesis in a language other than English providing that specific conditions have been met.

Career options
The research degrees offered by UTS: International Studies are especially valuable for those wishing to pursue an academic career or a career in research.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Each applicant should, prior to application, discuss their proposed thesis topic with UTS: International Studies’ research coordinator to determine whether supervision is possible. Information and application forms are available in English and Chinese.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: A; or PTE: 67-73
Eligibility for admission does not guarantee offer of a place.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study. Students can complete the course in less than the maximum time.

Students are, in general, not required to attend classes, however, regular contact is maintained with the candidate’s supervisor(s) throughout enrolment.

Course structure
This degree involves a period of supervised study and research, culminating in the submission of a thesis. It is offered to both local and international students.

Graduates from the master’s have consistently achieved excellent examiners’ reports from international leaders in their fields. Most have been eligible for the UTS Chancellor’s Award, and several have been placed on the Chancellor’s List.

Course aims
The institute aims to support students taking a trans-disciplinary or interdisciplinary approach to research while building on their existing expertise.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Previous qualifications must be in a relevant field. Submission of a brief research proposal is also required.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-80 overall with a writing score of 21; or DEEP: C; or PTE: 58-64; or CAE: 58-66
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.

Course structure
This research degree is undertaken wholly by thesis.

Course completion requirements
95583 Master of Sustainable Futures Thesis

Other information
Further information is available from the Institute for Sustainable Futures on:
telephone +61 2 9514 4950
email isf@uts.edu.au
www.isf.uts.edu.au
Applicants may also contact the UTS: Graduate Research School on:
telephone +61 2 9514 1336
email ugs@uts.edu.au
www.gradschool.uts.edu.au

This research degree is undertaken wholly by thesis. A Master of Arts thesis is normally a work of around 40,000 words and is examined by two appropriate examiners, at least one of whom is external to UTS.

Candidates who are resident in China and who have difficulty travelling to Sydney can receive supervision in China through periodic visits by their supervisor, email contact and cooperation with a local university.

Theses can be supervised in the fields of cultural diversity, social change, contemporary culture, politics and modern history in China, Japan, Europe and the Americas.

Course completion requirements
979110 Thesis (International Studies)
Students are advised to read the General information and Course area information sections in conjunction with specific course entries.
C03047v1 Master of Education (Research)

Overview
The Master of Education (Research) is intended for those who wish to pursue advanced research in one of the areas of faculty expertise.

Career options
Career options include management-level positions in industry or government, and academic positions.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Further study at UTS
This course can also serve as a pathway into higher research degrees.

Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study. Students can complete the course in less than the maximum time.

Course structure
The program comprises research coursework, participation in faculty research seminars and a thesis of 50,000 words.

Further study at UTS
This course can also serve as a pathway into higher research degrees (PhD, EdD) if the student’s research project and progress are considered acceptable at the master’s assessment.

Other information
Further information is available from the UTS Student Centre on:
- telephone: +61 2 9514 3900
- email: Margaret.McGrath@uts.edu.au

Note(s)
Research degrees are offered on a sponsored, scholarship, faculty part-sponsored or full-fee-paying basis. Contact UTS: Education or the UTS: Graduate Research School for further details.

C03048v2 Master of Nursing (Research)

Overview
This degree is designed for registered nurses wanting to develop research skills that have practical application for innovations in the health care industry and scholarly understanding of nursing practice. It enables informed participation in research endeavours and clinical practice innovation and improvement. In this degree, students extend and deepen their knowledge of a specialised area in nursing through a program of supervised research.

Career options
This degree offers solid research training to registered nurses who are required to undertake research in their current employment or who aspire to such positions.

Admission requirements
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Further study at UTS
This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. Students are part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

Course structure
This course is a structured program of study incorporating research preparation subjects undertaken in the first year and the production of a research thesis for examination.

Further study at UTS
This course can also serve as a pathway into higher research degrees (PhD, EdD) if the student’s research project and progress are considered acceptable at the master’s assessment.

Other information
Further information is available from the UTS Student Centre on:
- telephone: +61 2 9514 3900
- email: Margaret.McGrath@uts.edu.au

Note(s)
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact UTS: Health or the UTS Graduate Research School for further details.

UTS: Handbook 2013
Postgraduate research courses
493
**Course completion requirements**

92975 Master of Nursing (Honours) Thesis 6cp
92972 Health Care Research Methodology 6cp
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp

**Course program**
The program for the coursework component appears below.

**Year 1**

**Autumn semester**
92972 Health Care Research Methodology 6cp

**Spring semester**
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp

**Other information**
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

**C03049v2 Master of Midwifery (Research)**

**Award(s):** Master of Midwifery (Research) (MMid(Res))
**CRICOS code:** 095680G
**Course EFTSL:** 2
**Location:** City campus

**Note(s)**
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact the UTS: Health or the UTS Graduate Research School for further details.

**Overview**
This degree is designed for registered midwives wanting to develop research skills that have practical application for innovations in the health care industry and scholarly understanding of midwifery practice. It enables informed participation in research endeavours and clinical practice innovation and improvement. Students extend and deepen their knowledge of a specialised area in midwifery through a program of supervised research.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop their knowledge and expertise within a professional and stimulating framework. Students are a part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

**Career options**
This degree offers solid research training to registered midwives who are required to undertake research in their current employment or who aspire to such positions.

**Admission requirements**
Applicants must have completed a UTS recognised bachelor’s degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Applicants are required to have authorisation to practise as a registered midwife. Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**
**Visa requirement:** To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**
The maximum course duration is two years of full-time or four years of part-time study.

Subjects are run in intensive mode, with an additional online component. All research students are expected to attend the twice yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

**Course structure**
This course is a structured program of study incorporating research preparation subjects undertaken in the first year and the production of a research thesis for examination.

Students are required to undertake a candidacy assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. Students work closely with a principal supervisor and a supervisory panel, and are required to report on their progress each semester.

**Course completion requirements**
92972 Health Care Research Methodology 6cp
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp
92976 Master of Midwifery (Honours) Thesis 6cp

**Course program**
The program for the coursework component is provided below.

**Year 1**

**Autumn semester**
92972 Health Care Research Methodology 6cp

**Spring semester**
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp

**Other information**
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

**C03050v2 Master of Health Services (Research)**

**Award(s):** Master of Health Services (Research) (MHS(Res))
**CRICOS code:** 055629G
**Course EFTSL:** 2
**Location:** City campus

**Course completion requirements**
92972 Health Care Research Methodology 6cp
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp
92976 Master of Midwifery (Honours) Thesis 6cp

**Course program**
The program for the coursework component is provided below.

**Year 1**

**Autumn semester**
92972 Health Care Research Methodology 6cp

**Spring semester**
92973 Developing Health Care Theory 6cp
92974 Investigating Health Care Change 6cp

**Other information**
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
e-mail nmhresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

**Note(s)**
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact UTS: Health or the UTS Graduate Research School for further details.

**Overview**
This degree is designed for health service professionals wanting to develop research skills that have practical application for innovations and policy in the health care sector, and scholarly understanding of health services provision. It enables informed participation in research endeavours and health services innovation and improvement. Students extend and deepen their knowledge of a specialised area in health services through a program of supervised research.

This course assists students to complete original research that contributes to knowledge in their field within an international context. Research at UTS takes place in a dynamic and outcomes-oriented environment. The University attracts students who want to develop research skills that have practical application for innovations and policy in the health care sector, and scholarly understanding of health services provision. It enables informed participation in research endeavours and health services innovation and improvement. Students extend and deepen their knowledge of a specialised area in health services through a program of supervised research.

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their knowledge and expertise within a professional and stimulating framework. Students are part of a lively and vigorous research culture, working closely with academic staff and health industry partners.

**Career options**

This degree offers solid research training to health service professionals who are required to undertake research in their current employment or who aspire to such positions.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies. Applicants are required to have qualifications and experience in the health services sector. Applicants are also required to submit a research proposal and have the agreement of a suitable supervisor at the time of application.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is two years of full-time or four years of part-time study.

Subjects are run in intensive mode, with an additional online component. All research students are expected to attend the twice-yearly Research Student Symposia and are required to present a seminar during these weeks, twice a year for full-time students and once a year for part-time students.

**Course structure**

This course is a structured program of study incorporating research preparation subjects undertaken in the first year and the production of a research thesis for examination. Students are required to undertake a candidate assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. Students work closely with a principal supervisor and a supervisory panel, and are required to report on their progress each semester.

**Course completion requirements**

- Health Care Research Methodology [92972] 6cp
- Developing Health Care Theory [92973] 6cp
- Investigating Health Care Change [92974] 6cp
- Master of Health Services (Honours) Thesis [92977] 6cp

**Course program**

The program for the coursework component is provided below.

**Year 1**

<table>
<thead>
<tr>
<th>Autumn semester</th>
<th>Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>92972 Health Care Research Methodology 6cp</td>
<td>92973 Developing Health Care Theory 6cp</td>
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<tr>
<td>92974 Investigating Health Care Change 6cp</td>
<td>92974 Investigating Health Care Change 6cp</td>
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</tbody>
</table>

**Other information**

Further information is available from:
Research administration officer telephone: +61 2 9514 4834 email nmhrresearch.StudentsAdmin@uts.edu.au and from the UTS Graduate Research School: www.gradschool.uts.edu.au

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**C03051v1 Master of Analytics (Research)**

**Overview**

UTS is at the forefront of analytics education in Australia with its focus on practice-based, interdisciplinary analytics and decision-making research. Big data in the internet age is very complex and growing exponentially, posing greater challenges for organisations. In this course, students can focus on real-world business problems in their own organisations and develop solutions as part of their research. This course enables graduates to extend and deepen their knowledge in a specialised area of analytics by undertaking research under the supervision of a member of academic staff.

The core program is supplemented by short courses, seminars and projects. These courses provide academic rigour while using cutting-edge technologies.

The course offers flexibility in the choice of research topics so that the research is closely aligned with the student's professional requirements. Students can undertake research in analytics to solve the problems that directly impact their organisations: research with a purpose.

Advanced analytics techniques and solutions are increasingly being used by industry to drive productivity, transform business and increase competitiveness. The demand for skilled analytics professionals with the ability to work in both traditional and emerging industries continues to grow. With high-level analytics skills graduates are able to make a significant contribution to their organisation. Students also benefit from being able to work with world-leading researchers in this area.

**Career options**

There is a skills shortage of professionals with work-ready skills in analytics. The demand for skilled professionals in analytics crosses a range of industries from banking, e-commerce, education, finance, government, health, insurance, marketing, taxation, telecommunications and transport. In a knowledge economy there is significant demand for graduates in this area.

**Admission requirements**

Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Previous qualifications must have a major in analytics, computing, applied statistics or applied mathematics. Before submitting a formal application for admission to this degree, applicants should first seek the approval of a potential supervisor for their proposed research work.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.0 overall with a writing score of 6.0; or TOEFL: paper based: 500-549 overall with TWE of 4.5, internet based: 60-78 overall with a writing score of 21; or DEEP: C; or PTE: 50-57; or CAE: 52-57

Eligibility for admission does not guarantee offer of a place.

**International students**

Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

**Course duration and attendance**

The maximum course duration is two years of full-time or four years of part-time study.

**Course structure**

Candidates are required to complete two subjects covering technology research preparation and technology research methods respectively (some candidates may be exempt from completing these subjects), and selected learning modules, seminars, projects and practice.

The degree is examined through presentation of a thesis.
All thesis students are required to submit, in consultation with their supervisor(s), a progress report at the end of each semester. The UTS: Graduate Research School contacts each student and their supervisor(s) to initiate this process.

Course completion requirements
31676 Thesis (Analytics) 6cp
32144 Technology Research Preparation 6cp
32931 Technology Research Methods 6cp

Other information
Further information is available from the UTS: Graduate Research School at:
telephone +61 2 9514 1336
www.gradschool.uts.edu.au
or from UTS: Information Technology at:
Research Administration Officer
telephone +61 2 9514 4460
email Craig.Shuard@uts.edu.au

C03052v1 Master of Sport and Exercise (Research)
Award(s): Master of Sport and Exercise (Research) [MSportEx(Res)]
CRICOS code: 02333M
Course EFTSL: 2

Note(s)
Research degrees are offered on a sponsored, scholarship or full-fee-paying basis. Contact the UTS: Health or the UTS Graduate Research School for further details.

Overview
The Master of Sport and Exercise (Research) program is for graduates who wish to enhance their knowledge of an area, address policy or management issues, or pursue a research/academic career.

This program is suitable for students who have completed a course work degree and wish to develop in a more focused way by means of research. Students develop critical and analytical skills and advanced research skills to enable in-depth exploration of their chosen area.

Career options
Career options include management-level positions in industry or government, and academic positions.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 6.5 overall with a writing score of 6.0; or TOEFL: paper based: 550-583 overall with TWE of 4.5, internet based: 79-93 overall with a writing score of 21; or DEEP: C or PTE: 58-64; or CAE: 58-66

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

Course duration and attendance
The maximum course duration is two years of full-time, or four years of part-time study.

Course structure
The main requirement of the degree is the preparation of a thesis of 40,000-50,000 words, which presents the results of original research of a theoretical or applied nature.

Students are also required to complete the two-subject sequence relevant to their thesis topic. The first is an advanced research methods subject that also covers statistical analysis. The second involves reading and formal seminar presentations on current topics in the chosen area of study. In addition to these subjects, candidates may be required to enrol in subjects specified by their supervisors. During their candidature, students’ progress is monitored by a master’s assessment and regular progress reports.

Course completion requirements
92052 Master of Sport and Exercise Thesis

Other information
Further information is available from:
Research administration officer
telephone +61 2 9514 4834
email mmlresearch.StudentsAdmin@uts.edu.au
and from the UTS Graduate Research School:
www.gradschool.uts.edu.au

CRICOS code: 076138J
Course code: 32144 Technology Research Preparation
31676 Thesis (Analytics)
32144 Technology Research Preparation
32931 Technology Research Methods

C03053v1 Master of Pharmacy (Research)
Award(s): Master of Pharmacy (Research) [MPharm(Res)]
CRICOS code: 076138J
Course EFTSL: 2
Location: City campus

Overview
This course is intended for registered pharmacists, or students who have completed a registrable pharmacy degree, who wish to pursue a career in pharmacy research or gain a competitive advantage in their career by completing an additional postgraduate qualification. Students gain research skills and expertise in their area of research interest, and demonstrate their outstanding academic ability and commitment to pharmacy through the completion of the degree.

The Master of Pharmacy (Research) gives students the opportunity to work with leading national and international researchers in their area of interest to develop and complete an original research project, which contributes to knowledge. Students gain research training and skills, as well as developing extensive knowledge and expertise in an area of research. Students are supported by a strong and vibrant research culture, both within the School and the University and have access to other researchers, a wide variety of workshops, the University library and research facilities.

Career options
The Master of Pharmacy (Research) is excellent preparation for those students who wish to pursue doctoral research study, a career in research or higher level pharmacy positions. Career options include academic appointments, expanded practice roles, advisory positions and industry roles.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.

Applicants need to have completed a prior degree that would make them eligible for registration as a pharmacists.

The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0, internet based: 94-101 overall with a writing score of 23; or DEEP: B; or PTE: 65-72; or CAE: 67-73

Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.

All applicants are required to contact UTS: Pharmacy prior to applying to establish eligibility and supervisory arrangements.
Course duration and attendance
The maximum course duration is two years of full-time or four years of part-time study.
Students are also required to attend on-campus meetings with supervisors, research training sessions and other forums as required.

Course structure
This course consists of one thesis subject which is undertaken for the duration of the degree.
Students are required to undertake a candidacy assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. Students work closely with a principal supervisor and a supervisory panel, and are required to report on their progress each semester.

Course completion requirements

95590 Master of Pharmacy Thesis

Other information
For further information, contact UTS: Pharmacy:
email pharmacy@uts.edu.au
www.pharmacy.uts.edu.au
www.gradschool.uts.edu.au

C03054v1 Master of Pharmaceutical Sciences (Research)

Award(s): Master of Pharmaceutical Sciences (Research)
[MPharmSc(Res)]
CRICOS code: 076139G
Course EFTSL: 2

Overview
The Master of Pharmaceutical Sciences (Research) is intended for students who have completed a relevant degree in science, who wish to pursue a career in pharmaceutical sciences research or gain a competitive advantage in their career by completing an additional postgraduate qualification. Students in this course gain research skills, technical skills and expertise in their area of research interest and demonstrate their outstanding academic ability and commitment to pharmaceutical science through the completion of the degree.
The course gives students the opportunity to work with leading national and international researchers in their area of interest to develop and complete an original research project, which contributes to knowledge. Students gain research training and skills, as well as developing extensive knowledge and expertise in an area of research.
Students are supported by a strong and vibrant research culture, both within the School and the University and have access to other researchers, a wide variety of workshops, the University library and research facilities.

Career options
The Master of Pharmaceutical Sciences (Research) is excellent preparation for those students who wish to pursue doctoral research study, a career in research or higher level pharmaceutical science positions. Career options include academic appointments, industry roles and advisory positions.

Admission requirements
Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate research studies.
Applicants need to have completed a relevant bachelor's degree in science.
The English proficiency requirement for international students or local applicants with international qualifications is: Academic IELTS: 7.0 overall with a writing score of 7.0; or TOEFL: paper based: 584-609 overall with TWE of 5.0; or TOEFL: internet based: 94-101 overall with a writing score of 23; or DEEP: B+; or PTE: 65-72; or CAE: 67-73
Eligibility for admission does not guarantee offer of a place.

International students
Visa requirement: To obtain a student visa to study in Australia, international students must enrol full time and on campus. Australian student visa regulations also require international students studying on student visas to complete the course within the standard full-time duration. Students can extend their courses only in exceptional circumstances.
All applicants are required to contact UTS: Pharmacy prior to applying to establish eligibility and supervisory arrangements.

Course duration and attendance
The maximum course duration is two years full time or four years part time.
Students are also required to attend on-campus meetings with supervisors, research training sessions and other forums as required.

Course structure
This course consists of one thesis subject which is undertaken for the duration of the degree.
Students are required to undertake a candidacy assessment at the end of the first two semesters for full-time students, and at the end of the first three semesters for part-time students. Students work closely with a principal supervisor and a supervisory panel, and are required to report on their progress each semester.

Course completion requirements

95591 Master of Pharmaceutical Sciences Thesis

Other information
For further information, contact UTS: Pharmacy:
email pharmacy@uts.edu.au
www.pharmacy.uts.edu.au
www.gradschool.uts.edu.au
### CHOICE BLOCKS

**CBK90005 Country major choice**
Select 96 credit points from the following options:
- MA08918 Chile 96cp
- MA08919 China 96cp
- MA08920 France 96cp
- MA08921 Germany 96cp
- MA08923 Italy 96cp
- MA08924 Japan 96cp
- MA08926 Mexico 96cp
- MA08927 Spain 96cp
- MA08932 Switzerland 96cp
- MA08933 Canada 96cp
- MA09380 Latino USA 96cp
- MA08954 Argentina 96cp
- MA08949 Colombia 96cp
Total 96cp

**CBK90009 Business IT sub-major choice**
Select 12 credit points from the following options:
- 32509 Interaction Design 6cp
- 32531 Global Information Systems 6cp
- 32536 Advanced Software Modelling 6cp
- 32702 Contemporary Telecommunications 6cp
Total 12cp

**CBK90010 No specified major**
Select one of the following:
- 48023 Programming Fundamentals 6cp
- 48221 Engineering Computations 6cp
- 48016 Capstone Project Part A 6cp
- 48026 Capstone Project Part B 6cp
- 48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
Select 96 credit points from the following options:
Total 96cp

**CBK90011 Electives**
Select 24 credit points from the following options:
- 48023 Programming Fundamentals 6cp
- 48024 Applications Programming 6cp
- 48027 Language and Contexts of Australian Engineering 6cp
- 48071 Engineering Analytical Modelling 6cp
- 48080 Introduction to Innovation 6cp
- 48211 Review of External Course 2cp
- 48221 Engineering Computations 6cp
- 48330 Soil Behaviour 6cp
- 48331 Mechanics of Solids 6cp
- 48350 Environmental and Sanitation Engineering 6cp
- 48352 Construction Materials 6cp
- 48353 Concrete Design 6cp
- 48359 Structural Design 1 6cp
- 48360 Geotechnical Engineering 6cp
- 48361 Fluid Mechanics 6cp
- 48362 Hydraulics and Hydrology 6cp
- 48363 Materials Testing 6cp
- 48364 Materials Performance 6cp
- 48365 Structural Analysis 6cp
- 48369 Structural Design 2 6cp
- 48370 Steel and Timber Design 6cp
- 48371 Discrete Communications 6cp
- 48372 Water Quantity and Quality Processes 6cp
- 48378 Computer Modelling and Design 6cp
- 48389 Embedded C 6cp
- 48393 Software Architecture 6cp
- 48400 Software Engineering Practice 6cp
- 48420 Introductory Digital Systems 6cp
- 48430 Embedded Software 6cp
- 48440 Introductory Digital Systems 6cp
- 48450 Real-time Operating Systems 6cp
- 48451 Advanced Digital Systems 6cp
- 48452 Fundamentals of Electrical Engineering 6cp
- 48457 Computer Modelling and Design 6cp
- 48481 ICT Design 6cp
- 48487 ICT Analysis 6cp
- 48491 ICT Design 6cp
- 48501 Embedded C 6cp
- 48502 Software Engineering Practice 6cp
- 48504 Embedded Software 6cp
- 48506 Analog Electronics 6cp
- 48507 Introduction to Electical Engineering 6cp
- 48510 Circuit Analysis 6cp
- 48511 Electronics and Circuits 6cp
- 48512 Fundamentals of Electrical Engineering 6cp
- 48513 Circuit Analysis 6cp
- 48514 Embedded Software 6cp
- 48516 Power Electronics and Drives 6cp
- 48517 Electrical Machines 6cp
- 48520 Advanced Digital Systems 6cp
Total 120cp
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<td>Concrete Technology and Practice</td>
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<td>49152</td>
<td>Rehabilitation of Concrete Structures</td>
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<td>49994</td>
<td>Electrical Machines</td>
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<td>Power Circuit Theory</td>
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<td>Advanced Control</td>
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<td>49999</td>
<td>Digital Electronics</td>
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<td>Power Systems Analysis and Design</td>
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<td>Power Systems Operation and Protection</td>
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<td>Local Government Powers and Practice</td>
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CBK90018 200/300-level disciplinary choice
Free choice of electives.

CBK90019 200/300-level disciplinary choice
Select 8 credit points from the following options: 8cp
58324 Investigating Media, Reflective Practices 8cp
58221 Social Informatics 8cp
58226 Media, Mediation, Power 8cp
58225 Introduction to Film Studies 8cp
58323 Contemporary World Cinema 8cp
58218 Ideology, Beliefs and Visions 8cp
58224 Australian Pasts and Places 8cp
58223 Social Bodies 8cp
58316 Sex, Race and Empire 8cp
58222 Global Politics from Above and Below 8cp
58318 Gender, Culture, Power 8cp
58227 Balancing World Views: Introduction to Aboriginal Cultures 8cp
58326 Australian Aboriginal Politics and History 8cp
58328 The New Economy of Post-Nature 8cp
58320 Australian Fiction 8cp
58120 Creativity and Culture 8cp
58228 Climate Change: Politics and Ecology 8cp
58127 Information Cultures 8cp
58202 Regulating Communication: Law, Ethics, Politics 8cp
58325 Audiences, Users, Publics, Communities 8cp
58317 Transnational Media 8cp
58322 Screening the Past 8cp
58321 Australian Film 8cp
58217 Experiments in Culture 8cp
58329 Culture, Science and Nature 8cp
58319 Rights and Territories 8cp
58327 Indigenous Futures 8cp
58251 Genocide Studies 8cp
58231 Organisational Communication 8cp
Total 8cp

CBK90022 200-level professional choice: Journalism
Select 16 credit points from the following options: 16cp
58111 Reporting with Sound and Image 8cp
58112 Reporting and Editing for Print and Online Journalism 8cp
58210 Storytelling, Narrative and Features 8cp
Total 16cp

CBK90023 300-level professional choice: Journalism
Select 16 credit points from the following options: 16cp
58211 Specialist Reporting, Audiences and Interactivity 8cp
58310 Media Hub 8cp
50001 Online Documentary 8cp
Total 16cp

CBK90024 200-level professional choice: Media Arts and Production
Select 16 credit points from the following options: 16cp
58114 Fictions: Storytelling, Narrative and Drama 8cp
58213 Research and Practice 8cp
58115 Composing the Real 8cp
Total 16cp

CBK90025 300-level professional choice: Media Arts and Production
Select 16 credit points from the following options: 16cp
58212 Aesthetics 8cp
58311 Media Arts Project 8cp
50001 Online Documentary 8cp
Total 16cp

CBK90030 200-level professional choice: Social Inquiry
Select 8 credit points from the following options: 8cp
58124 Local Transformations 8cp
58123 Society, Economy and Globalisation 8cp
Total 8cp

CBK90032 300-level professional choice: Social Inquiry
Block A
Select 8 credit points from the following options: 8cp
58219 Social Change Communication 8cp
50001 Online Documentary 8cp
Total 8cp

CBK90033 300-level professional choice: Social Inquiry
Block B
Select 8 credit points from the following options: 8cp
50260 Parliamentary Placement 8cp
58314 Social Inquiry Placement 8cp
Total 8cp

CBK90034 200-level professional choice: Writing
Select 16 credit points from the following options: 16cp
58216 Imagining the Real 8cp
58121 Fictional Forms 8cp
58901 Screenwriting 8cp
Total 16cp

CBK90035 300-level professional choice: Writing
Select 16 credit points from the following options: 16cp
58313 Writing Laboratory 8cp
58900 Poetry 8cp
58902 Writing Through Genre 8cp
Total 16cp

CBK90036 No specified major
Select one of the following: 6cp
48023 Programming Fundamentals 6cp
48221 Engineering Computations 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
Select 90 credit points from the following options: 90cp
48023 Programming Fundamentals 6cp
48024 Applications Programming 6cp
48080 Introduction to Innovation 6cp
48330 Soil Behaviour 6cp
48331 Mechanics of Solids 6cp
48340 Construction 6cp
48342 Structural Behaviour and Design 6cp
48349 Structural Analysis 6cp
48350 Environmental and Sanitation Engineering 6cp
48352 Construction Materials 6cp
48353 Concrete Design 6cp
48360 Geotechnical Engineering 6cp
48362 Hydraulics and Hydrology 6cp
48364 Materials Testing 6cp
48365 Materials Performance 6cp
48366 Steel and Timber Design 6cp
48370 Road and Transport Engineering 6cp
48371 Advanced Engineering Computing 6cp
48372 Water Quantity and Quality Processes 6cp
48389 Computer Modelling and Design 6cp
48430 Embedded C 6cp
48433 Software Architecture 6cp
48434 Embedded Software 6cp
48448 Software Engineering Practice 6cp
48441 Introductory Digital Systems 6cp
48450 Real-time Operating Systems 6cp
48451 Advanced Digital Systems 6cp
48510 Introduction to Electrical Engineering 6cp
48520 Electronics and Circuits 6cp
48521 Fundamentals of Electrical Engineering 6cp
48530 Circuit Analysis 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
48541 Signal Theory 6cp
48550 Renewable Energy Systems 6cp
48551 Analog Electronics 6cp
48560 Introductory Control 6cp
48561 Power Electronics and Drives 6cp
48570 Data Acquisition and Distribution 6cp
Completion requirements

Free choice of electives.

CBK90039 Media Arts choice
Select 16 credit points from the following options:  
57166 Sound and Interaction  8cp
57179 Project Development and Creative Practice  8cp
57189 Mise-en-Scene  8cp
57175 Creative Producing  8cp
57061 Issues in Documentary  8cp
57166 Documentary Production  8cp
57178 Digital and Multiplatform Storytelling  8cp
57173 Advanced Post Production  8cp
57176 Directing  8cp
Total 16cp

CBK90040 Media Production choice
Select 16 credit points from the following options:  
57173 Advanced Post Production  8cp
57175 Creative Producing  8cp
57176 Directing  8cp
57168 Sound and Interaction  8cp
57166 Documentary Production  8cp
57178 Digital and Multiplatform Storytelling  8cp
57179 Project Development and Creative Practice  8cp
Total 16cp

CBK90042 Options
Select 24 credit points from the following options:  
76521 Intellectual Property and Traditional Knowledge  6cp
77794 International Environmental Law  6cp
78008 Law of the Sea  6cp
76003 Asian Law and Legal Systems  6cp
76005 Islamic Law  6cp
76006 Public International Law  6cp
76007 International Human Rights Law  6cp
76008 Jurisprudence  6cp
76012 Criminology  6cp
76015 Labour Law  6cp
76016 Advanced Revenue Law  6cp
76023 Deceptive Trade Practices and Product Liability  6cp
76024 Environmental Law  6cp
76027 Competition Law  6cp
76039 Jessup International Moot  6cp
76040 Research Thesis  6cp
76042 Electronic Communications Content Regulation  6cp
76045 Medicine and Law  6cp
76047 Advanced Contracts  6cp
76048 Citizenship and Immigration Law  6cp
76052 Dispute Resolution Advocacy  6cp
76053 Industrial Law  6cp
76063 Media Law  6cp
76066 Children and the Law  6cp
76068 Indigenous Peoples and the Law  6cp
76069 Community Justice Studies  6cp
76070 Biomedical Law and Bioethics  6cp
76074 Australian Civil Liberties Law  6cp
76075 Contemporary Legal Studies 1  6cp
76076 Contemporary Legal Studies 2  6cp
76080 Finance Law  6cp
76115 Insolvency  6cp
76212 Revenue Law  6cp
76516 Family Law  6cp
76517 Succession  6cp
76703 Indigenous Peoples, the Environment and Property  6cp
76801 Exchange Subject 1  6cp
76802 Exchange Subject 2  6cp
76803 Exchange Subject 3  6cp
76804 Exchange Subject 4  6cp
76900 Moot  6cp
76901 Vis Arbitral Moot  6cp
76902 Sports Law  6cp
78021 Contemporary Issues in Constitutional Law  6cp
77704 European Union Law  6cp
77715 Banking Law  6cp
77901 Securities Markets Law  6cp
78025 Intellectual Property: Law and Policy  6cp
76081 Gender, Law and Sexuality  6cp
78040 The Law and Education  6cp

501
CBK90044 Education subjects (PG)

Select 42 credit points from the following options: 42cp

013087 Discourse Analysis 6cp
013090 e-Learning Design 6cp
013091 e-Learning Experiences 1 6cp
013092 e-Learning Experiences 2 6cp
013093 e-Learning Technologies 6cp
013095 Global Englishes 6cp
013096 Grammar and the Construction of Meaning 6cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013105 Language Development 6cp
013106 Mentoring in the Workplace 6cp
013107 Phonology and Pronunciation 6cp
013112 Research Design 6cp
013113 Skill Learning and the Development of Expertise 6cp
013117 Theory and Practice of Literacy 6cp
013120 The Psychology of Adult Development 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
013125 Adult Education: History, Policy and Context 6cp
013127 Communication Management 6cp
013128 Learning and Change in Organisations 6cp
013129 Effective Cognitive Learning Strategies 6cp
013130 Education for Social Change 1 6cp
013131 Education for Social Change 2 6cp
013132 Technology Enhanced Language Learning 6cp
013133 Individual Instruction for Diverse Learners 6cp
013134 Changing Practices Research Seminar 6cp
013135 Literary Theory and Education 6cp
013136 Developing People and Teams 6cp
013137 Educational Leadership 6cp
013138 Teaching and Learning in Higher Education 6cp
013139 Assessing Learning 6cp
013140 Simulation and Games 6cp
013141 Language Programming and Assessment 6cp
013142 Adult Learning and Program Development 6cp
013143 Designs for Learning Research Seminar 6cp
013144 Learning and the Family 6cp
013145 Culture, Difference and Curriculum 6cp
013146 Using Film for Critical Pedagogy 6cp
013147 Human Resources and Organisational Development 6cp
013159 Independent Study Project 2 6cp
013952 Research Perspectives 6cp
013951 Learning and Change 6cp

CBK90047 Elective (e-Business)

Free choice of electives.

CBK90049 Education subjects (PG)

Select 24 credit points from the following options: 24cp

013087 Discourse Analysis 6cp
013090 e-Learning Design 6cp
013091 e-Learning Experiences 1 6cp
013092 e-Learning Experiences 2 6cp
013093 e-Learning Technologies 6cp
013095 Global Englishes 6cp
013096 Grammar and the Construction of Meaning 6cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013105 Language Development 6cp
013106 Mentoring in the Workplace 6cp
013107 Phonology and Pronunciation 6cp
013112 Research Design 6cp
013113 Skill Learning and the Development of Expertise 6cp
013117 Theory and Practice of Literacy 6cp
013120 The Psychology of Adult Development 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
013125 Adult Education: History, Policy and Context 6cp
013127 Communication Management 6cp
013128 Learning and Change in Organisations 6cp
013129 Effective Cognitive Learning Strategies 6cp
013130 Education for Social Change 1 6cp
013131 Education for Social Change 2 6cp
013132 Technology Enhanced Language Learning 6cp
013133 Individual Instruction for Diverse Learners 6cp
013134 Changing Practices Research Seminar 6cp
013135 Literary Theory and Education 6cp
013136 Developing People and Teams 6cp
013137 Educational Leadership 6cp
013138 Teaching and Learning in Higher Education 6cp
013139 Assessing Learning 6cp
013140 Simulation and Games 6cp
013141 Language Programming and Assessment 6cp
013142 Adult Learning and Program Development 6cp
013143 Designs for Learning Research Seminar 6cp
013144 Learning and the Family 6cp
013145 Culture, Difference and Curriculum 6cp
013146 Using Film for Critical Pedagogy 6cp
013147 Human Resources and Organisational Development 6cp
013159 Independent Study Project 2 6cp
013952 Research Perspectives 6cp
013951 Learning and Change 6cp

CBK90045 Education subjects (PG)

Select 12 credit points from the following options: 12cp

013087 Discourse Analysis 6cp
013090 e-Learning Design 6cp
013091 e-Learning Experiences 1 6cp
013092 e-Learning Experiences 2 6cp
013093 e-Learning Technologies 6cp
013095 Global Englishes 6cp
013096 Grammar and the Construction of Meaning 6cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013105 Language Development 6cp
013106 Mentoring in the Workplace 6cp

Total 42cp

CBK90047 Elective (e-Business)

Free choice of electives.
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<tr>
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<th>Course Title</th>
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<td>Adult Learning and Program Development 6cp</td>
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<td>Designs for Learning Research Seminar 6cp</td>
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<td>Learning and the Family 6cp</td>
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<td>Culture, Difference and Curriculum 6cp</td>
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<td>Using Film for Critical Pedagogy 6cp</td>
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<td>Human Resources and Organisational Development 6cp</td>
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<td>Studio Practice in Visual Arts 6cp</td>
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<td>Teaching Across the Curriculum 6cp</td>
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<td>School and Community Relations 6cp</td>
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<td>024705</td>
<td>Children’s Literature and Multi-literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Children's Books 6cp</td>
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**CBK90056 Nursing subjects (PG)**

Select 6 credit points from the following options: 6cp

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**CBK90074 Electives**

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<td>31080</td>
<td>Digital Multimedia</td>
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<tr>
<td>31096</td>
<td>Managing Client/Vendor Relations</td>
<td>6cp</td>
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<tr>
<td>31097</td>
<td>IT Operations Management</td>
<td>6cp</td>
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<tr>
<td>31100</td>
<td>Enterprise Development with .NET</td>
<td>6cp</td>
</tr>
<tr>
<td>31335</td>
<td>Extreme Programming</td>
<td>6cp</td>
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<tr>
<td>31338</td>
<td>Network Servers</td>
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<tr>
<td>31777</td>
<td>Human-Computer Interaction</td>
<td>6cp</td>
</tr>
<tr>
<td>31927</td>
<td>Application Development with .NET</td>
<td>6cp</td>
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<tr>
<td>31950</td>
<td>Networked Enterprise Design</td>
<td>6cp</td>
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<tr>
<td>31091</td>
<td>Mobile Computing Project</td>
<td>6cp</td>
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**CBK90075 Electives**

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<td>21407</td>
<td>Strategic Human Resource Management</td>
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<td>Transnational Management</td>
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<td>24202</td>
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<td>24205</td>
<td>Business-to-Business Marketing</td>
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<td>24210</td>
<td>Integrated Marketing Communications</td>
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**Total 6cp**

**CBK90076 Electives (Business, IT, Law)**

Select 24 credit points from the following options: 24cp

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<td>31338</td>
<td>Network Servers</td>
<td>6cp</td>
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<td>31777</td>
<td>Human-Computer Interaction</td>
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<td>31927</td>
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<tr>
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<td>Data Mining Algorithms</td>
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**Select 18 credit points from the following options:** 18cp

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<tbody>
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**Select 24 credit points from the following options:** 24cp

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<th>Course Title</th>
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<tbody>
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**CBK90079 Electives**

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<tr>
<td>32531</td>
<td>Global Information Systems</td>
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<tr>
<td>32208</td>
<td>Information Systems Strategy</td>
<td>6cp</td>
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<tr>
<td>32510</td>
<td>Principles of Object-oriented Programming in C++</td>
<td>6cp</td>
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<tr>
<td>32536</td>
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<td>32106</td>
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<td>Project Management</td>
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<td>Recent Advances in Information Systems</td>
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<td>Advanced Data Mining Algorithms</td>
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<td>32530</td>
<td>Building Intelligent Agents</td>
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<tr>
<td>32501</td>
<td>Computer Graphics</td>
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<td>32509</td>
<td>Interaction Design</td>
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**Select 18 credit points from the following options:** 18cp

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<tr>
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<td>Principles of Object-oriented Programming in C++</td>
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<td>Advanced Software Modelling</td>
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<td>Recent Advances in Information Systems</td>
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<tr>
<td>32543</td>
<td>Advanced Image Synthesis Techniques</td>
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<td>Building Intelligent Agents</td>
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**CBK90080 Electives**

Select 12 credit points from the following options:

- 31080 Digital Multimedia 6cp
- 31097 IT Operations Management 6cp
- 31335 Extreme Programming 6cp
- 31735 Information Systems and Organisational Development 6cp
- 31748 Programming on the Internet 6cp
- 31777 Human-Computer Interaction 6cp
- 31950 Networked Enterprise Design 6cp
- 31906 Managing Client/Vendor Relations 6cp
- 31938 Network Servers 6cp
- 31927 Application Development with .NET 6cp
- 31901 Mobile Computing Project 6cp
- 31100 Enterprise Development with .NET 6cp
- 31005 Data Mining Algorithms 6cp

**Total 12cp**

**CBK90082 Electives**

Select 60 credit points from the following options:

- 25355 Database in Distributed Environments 6cp
- 25351 Global Information Systems 6cp
- 25308 Information Systems Strategy 6cp
- 25310 Principles of Object-oriented Programming in C++ 6cp
- 25326 Advanced Software Modelling 6cp
- 32106 Agile Method Engineering 6cp
- 32933 Research Project 6cp
- 32934 Research Project 12cp
- 32541 Project Management 6cp
- 32502 Recent Advances in Information Systems 6cp
- 32543 3D Animation 6cp
- 32544 Advanced Image Synthesis Techniques 6cp
- 32513 Advanced Data Mining Algorithms 6cp
- 32530 Building Intelligent Agents 6cp
- 32501 Computer Graphics 6cp
- 32509 Interaction Design 6cp
- 32549 Advanced Internet Programming 6cp
- 32527 Internet Network Design 6cp
- 32516 Internet Programming 6cp
- 32525 Web Services Technologies and Applications 6cp
- 32523 Operating Systems for Network Security 6cp
- 32547 UNIX Systems Programming 6cp
- 32521 WANS and VLNMS 6cp
- 32524 LANS and Routing 6cp
- 32702 Contemporary Telecommunications 6cp
- 32120 Introduction to e-Business Technology 6cp
- 24726 Economics and Marketing in the New Economy 6cp
- 95563 Digital Media Development Process 6cp
- 95564 Digital Media Technologies 6cp
- 95565 Digital Graphics and the Still Image 6cp
- 95566 Digital Information and Interaction Design 6cp
- 95567 Digital Media in Social Context 6cp
- 95568 Digital Sound and the Moving Image 6cp
- 32004 Game Programming 6cp
- 32003 Computer Game Design 6cp
- 32131 Data Mining and Visualisation 6cp
- 32133 e-Market Trading Technology 6cp
- 32550 Advances in Requirements Engineering 6cp
- 32130 Fundamentals of Data Analytics 6cp
- 32148 Enterprise Computing 6cp
- 32209 Advanced Topics in Computer Networks 6cp

**Total 60cp**

CBK90085 Core subjects

Select 12 credit points from the following options:

- 95566 Digital Information and Interaction Design 6cp
- 95567 Digital Media in Social Context 6cp
- 95568 Digital Sound and the Moving Image 6cp

**Total 12cp**

CBK90086 Sub-major options

Select 24 credit points from the following options:

- 32103 .NET Enterprise Development 6cp
- 32901 .NET Application Development 6cp

**Total 24cp**

CBK90108 Leisure, Sport and Tourism subjects (PG)

Select 6 credit points from the following options:

- 27715 Sport Business 6cp
- 27717 Venue and Facility Management 6cp
- 27721 Sport Globalisation 6cp
- 27764 Analysis of the Olympic Games 6cp
- 27765 Event Management 6cp
- 27700 Sustainable Tourism Management 6cp
- 27706 Managing Tourism Services 6cp
- 27767 Tourist Behaviour 6cp
- 27935 Applied Studies 6cp
- 27934 Research Project 12cp
- 27933 Research Project 6cp

**Total 6cp**

CBK90116 Core subjects

Select 18 credit points from the following options:

- 49001 Judgement and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49003 Economic Evaluation 6cp
- 49004 Systems Engineering for Managers 6cp
- 49309 Quality Planning and Analysis 6cp
- 49680 Value Chain Engineering Systems 6cp
- 49098 Engineering Financial Control 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 49069 Leadership and Responsibility 6cp
- 21844 Managing Work and People 6cp

**Total 18cp**

CBK90121 Primary Education

Select 144 credit points from the following options:

- 020412 Art Study 2: A Sense of Place 6cp
- 020413 Art Study 3: Stories, Myths and Truth 6cp
- 020703 Issues in Art Education 6cp
- 020704 Studio Practice in Visual Arts 6cp
- 021311 Computer-mediated Learning for Children 4cp
- 021412 Educational Computing Study 2 6cp
- 021702 ICT in Primary Education: Current Issues and Applications 6cp
- 022203 HSIE Study 2: Conflicts and Resolutions 6cp
- 022204 HSIE Study 3: Multicultural Australia in its Asia-Pacific Regional Context, Implications for Teaching 6cp
- 022601 Learning Beyond the Classroom 6cp
- 022602 Independent Study 6cp
- 022603 Teaching Across the Curriculum 6cp
- 022604 HSIE Study 2: Conflicts and Resolutions 6cp
- 022812 Special Education 1: Managing Challenging Behaviours 6cp
- 023614 International Perspectives on Education 6cp
- 023621 School and Community Relations 6cp
- 023821 Special Education 1: Managing Challenging Behaviours 6cp
- 023822 Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling 6cp
- 023823 Special Education 3: Educating Students who have Difficulties with Written Text 6cp
- 023824 Special Education 4: Numeracy Instruction for Students with Learning Difficulties and Disabilities 6cp
- 023825 Special Education 5: Educating Students with Moderate and High Support Needs 6cp
- 023826 Special Education 6: Educating Students with Delayed or Disordered Communication 6cp
- 023881 Special Education Professional Experience 1: Assessment, Programming and Evaluation 6cp

CBK90083 Electives

Free choice of electives.

**Total 144cp**
### CBK90133 Interior Industry subjects
Select 18 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>86150</td>
<td>Consumer Environments</td>
<td>6cp</td>
</tr>
<tr>
<td>86160</td>
<td>Corporate Environments</td>
<td>6cp</td>
</tr>
<tr>
<td>86190</td>
<td>Special Industry Project</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 18cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90134 Interior Theory and Elements subjects
Select 18 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>86213</td>
<td>Interpreting Cultural Space</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 18cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90135 Interior Science and Systems subjects
Free choice of electives.

### CBK90136 Year 2 and 3 subjects
Select 6 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>86190</td>
<td>Special Industry Project</td>
<td>6cp</td>
</tr>
<tr>
<td>86133</td>
<td>Interior Systems and Design Detail</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 6cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90137 Options (PSM) (A)
Select 24 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>85500</td>
<td>Design Futures: Creative Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>80034</td>
<td>Physical and Tangible Media Interfaces for Design Expression</td>
<td>6cp</td>
</tr>
<tr>
<td>80214</td>
<td>Locative and Sensor Design Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>87669</td>
<td>VC Technology: Digital Photo Media</td>
<td>6cp</td>
</tr>
<tr>
<td>80035</td>
<td>Photographic Artifice</td>
<td>6cp</td>
</tr>
<tr>
<td>80042</td>
<td>Photography and Seeing Light</td>
<td>6cp</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80033</td>
<td>Professional Practice: Photography</td>
<td>6cp</td>
</tr>
<tr>
<td>80063</td>
<td>Professional Practice: Situated/Interactive Media</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90138 Electives (PSM) (B)
Free choice of electives.

### CBK90141 Language and Culture subject choice
Select 16 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK90487</td>
<td>Chinese Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90488</td>
<td>Japanese Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90490</td>
<td>French Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90491</td>
<td>Spanish Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90492</td>
<td>German Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>CBK90493</td>
<td>Italian Language and Culture</td>
<td>16cp</td>
</tr>
<tr>
<td>Total 16cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90142 Contemporary Society subject
Select 8 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>976111</td>
<td>Contemporary China</td>
<td>8cp</td>
</tr>
<tr>
<td>976211</td>
<td>Contemporary Japan</td>
<td>8cp</td>
</tr>
<tr>
<td>976502</td>
<td>Contemporary Latin(o) Americas</td>
<td>8cp</td>
</tr>
<tr>
<td>976602</td>
<td>Contemporary Canada (Quebec)</td>
<td>8cp</td>
</tr>
<tr>
<td>976404</td>
<td>Contemporary Switzerland</td>
<td>8cp</td>
</tr>
<tr>
<td>976411</td>
<td>Contemporary France</td>
<td>8cp</td>
</tr>
<tr>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
</tr>
<tr>
<td>976431</td>
<td>Contemporary Italy</td>
<td>8cp</td>
</tr>
<tr>
<td>976451</td>
<td>Contemporary Spain</td>
<td>8cp</td>
</tr>
<tr>
<td>Total 8cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90145 Core subjects
Select 36 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49122</td>
<td>Ecology and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49123</td>
<td>Waste and Pollution Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49125</td>
<td>Environmental Risk Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49049</td>
<td>Air and Noise Pollution</td>
<td>6cp</td>
</tr>
<tr>
<td>49127</td>
<td>On-site Water and Wastewater Treatment</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49116</td>
<td>Contaminated Site and Waste Remediation</td>
<td>6cp</td>
</tr>
<tr>
<td>49257</td>
<td>Geographic Information Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 36cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90147 Electives
Select 48 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>013081</td>
<td>Aboriginal Studies Project</td>
<td>6cp</td>
</tr>
<tr>
<td>013082</td>
<td>Aboriginal Social and Political History</td>
<td>6cp</td>
</tr>
<tr>
<td>013097</td>
<td>Human Resource Development in Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>013099</td>
<td>Individualised Project 1</td>
<td>6cp</td>
</tr>
<tr>
<td>013102</td>
<td>Introduction to Language</td>
<td>6cp</td>
</tr>
<tr>
<td>013103</td>
<td>Issues in Aboriginal Education</td>
<td>6cp</td>
</tr>
<tr>
<td>013110</td>
<td>Programming and Assessment in Language Literacy and Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013115</td>
<td>Professional Practice and Changing Work</td>
<td>6cp</td>
</tr>
<tr>
<td>013118</td>
<td>Teaching and Learning Literacy</td>
<td>6cp</td>
</tr>
<tr>
<td>013124</td>
<td>Work and People</td>
<td>6cp</td>
</tr>
<tr>
<td>013148</td>
<td>Initiatives in Aboriginal Education</td>
<td>6cp</td>
</tr>
<tr>
<td>013151</td>
<td>Project Management</td>
<td>6cp</td>
</tr>
<tr>
<td>013158</td>
<td>Language Teaching Methodology</td>
<td>6cp</td>
</tr>
<tr>
<td>013160</td>
<td>Individual Communication in the Workplace</td>
<td>6cp</td>
</tr>
<tr>
<td>013161</td>
<td>Team Communication in the Workplace</td>
<td>6cp</td>
</tr>
<tr>
<td>013163</td>
<td>Cultural Diversity at Work</td>
<td>6cp</td>
</tr>
<tr>
<td>013167</td>
<td>e-Learning Design</td>
<td>6cp</td>
</tr>
<tr>
<td>013197</td>
<td>Teaching and Learning Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013192</td>
<td>Organisational Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013195</td>
<td>Designing and Developing Simulations and Games</td>
<td>6cp</td>
</tr>
<tr>
<td>013197</td>
<td>Strategic Human Resource Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013197</td>
<td>Organisational Learning and Change: Local and Global</td>
<td>6cp</td>
</tr>
<tr>
<td>013198</td>
<td>Teaching Aboriginal Studies</td>
<td>6cp</td>
</tr>
<tr>
<td>013149</td>
<td>The Language Literacy and Numeracy Learner</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 48cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CBK90148 Education subjects (PG)
Select 6 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>013087</td>
<td>Discourse Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>013095</td>
<td>Global Englishes</td>
<td>6cp</td>
</tr>
<tr>
<td>013096</td>
<td>Grammar and the Construction of Meaning</td>
<td>6cp</td>
</tr>
<tr>
<td>013104</td>
<td>Language and Power</td>
<td>6cp</td>
</tr>
<tr>
<td>013105</td>
<td>Language Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013106</td>
<td>Mentoring in the Workplace</td>
<td>6cp</td>
</tr>
<tr>
<td>013107</td>
<td>Phonology and Pronunciation</td>
<td>6cp</td>
</tr>
<tr>
<td>013112</td>
<td>Research Design</td>
<td>6cp</td>
</tr>
<tr>
<td>013113</td>
<td>Skill Learning and the Development of Expertise</td>
<td>6cp</td>
</tr>
<tr>
<td>013117</td>
<td>Theory and Practice of Literacy</td>
<td>6cp</td>
</tr>
<tr>
<td>013120</td>
<td>The Psychology of Adult Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013121</td>
<td>Theory and Practice of Teaching English to Speakers of other Languages</td>
<td>6cp</td>
</tr>
<tr>
<td>013122</td>
<td>Understanding Adult Education and Training</td>
<td>6cp</td>
</tr>
<tr>
<td>013123</td>
<td>Work and Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013125</td>
<td>Adult Education: History, Policy and Context</td>
<td>6cp</td>
</tr>
<tr>
<td>013127</td>
<td>Communication Management</td>
<td>6cp</td>
</tr>
<tr>
<td>013128</td>
<td>Learning and Change in Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>013129</td>
<td>Effective Cognitive Learning Strategies</td>
<td>6cp</td>
</tr>
<tr>
<td>013130</td>
<td>Education for Social Change 1</td>
<td>6cp</td>
</tr>
<tr>
<td>013131</td>
<td>Education for Social Change 2</td>
<td>6cp</td>
</tr>
<tr>
<td>013132</td>
<td>Technology Enhanced Language Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013133</td>
<td>Individual Instruction for Diverse Learners</td>
<td>6cp</td>
</tr>
<tr>
<td>013134</td>
<td>Changing Practices Research Seminar</td>
<td>6cp</td>
</tr>
<tr>
<td>013135</td>
<td>Literary Theory and Education</td>
<td>6cp</td>
</tr>
<tr>
<td>013136</td>
<td>Developing People and Teams</td>
<td>6cp</td>
</tr>
<tr>
<td>013137</td>
<td>Educational Leadership</td>
<td>6cp</td>
</tr>
<tr>
<td>013138</td>
<td>Teaching and Learning in Higher Education</td>
<td>6cp</td>
</tr>
<tr>
<td>013139</td>
<td>Assessing Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013140</td>
<td>Simulation and Games</td>
<td>6cp</td>
</tr>
<tr>
<td>013141</td>
<td>Language Programming and Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>013142</td>
<td>Adult Learning and Program Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013143</td>
<td>Designs for Learning Research Seminar</td>
<td>6cp</td>
</tr>
<tr>
<td>013144</td>
<td>Learning and the Family</td>
<td>6cp</td>
</tr>
<tr>
<td>013145</td>
<td>Culture, Difference and Curriculum</td>
<td>6cp</td>
</tr>
<tr>
<td>013146</td>
<td>Using Film for Critical Pedagogy</td>
<td>6cp</td>
</tr>
<tr>
<td>013147</td>
<td>Human Resources and Organisational Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013148</td>
<td>Independent Study Project 1</td>
<td>6cp</td>
</tr>
<tr>
<td>013159</td>
<td>Independent Study Project 2</td>
<td>6cp</td>
</tr>
<tr>
<td>013951</td>
<td>Learning and Change</td>
<td>6cp</td>
</tr>
<tr>
<td>013952</td>
<td>Research Perspectives</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 6cp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**CBK90149 Science subjects**
Consult the course director before selecting this study package.

**Completion requirements**
Select 12 credit points from the following options: 12cp
91499 Current Topics in Science and Technology 12cp
Total 12cp

**CBK90151 Electives (IT Management)**
Free choice of electives.

**CBK90152 Visual Communications Technology subjects**
Select 12 credit points from the following options: 12cp
87007 VC Technology: Pre-press and Print Production 6cp
87539 VC Technology: Introduction to Web Media 6cp
87549 VC Technology: Introduction to Interactive Media 6cp
87559 VC Technology: Introduction to Video Media 6cp
87569 VC Technology: Historical Photo Media 6cp
Total 12cp

**CBK90154 Core subjects choice**
Select 36 credit points from the following options: 36cp
49003 Economic Evaluation 6cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49009 Quality Planning and Analysis 6cp
Select one of the following: 6cp
49098 Engineering Financial Control 6cp
22747 Accounting for Managerial Decisions 6cp
Select one of the following: 6cp
49069 Leadership and Responsibility 6cp
21844 Managing Work and People 6cp
49680 Value Chain Engineering Systems 6cp
Total 36cp

**CBK90159 Electives**
Select 24 credit points from the following options: 24cp
31735 Information Systems and Organisation Development 6cp
31748 Programming on the Internet 6cp
31777 Human-Computer Interaction 6cp
31927 Application Development with .NET 6cp
31950 Networked Enterprise Design 6cp
31080 Digital Multimedia 6cp
31097 IT Operations Management 6cp
31335 Extreme Programming 6cp
31748 Programming on the Internet 6cp
31777 Human-Computer Interaction 6cp
31927 Application Development with .NET 6cp
31735 Information Systems and Organisation Development 6cp
31950 Networked Enterprise Design 6cp
31096 Managing Client / Vendor Relations 6cp
31100 Enterprise Development with .NET 6cp
31338 Network Servers 6cp
31030 Project 6cp
31091 Mobile Computing Project 6cp
31005 Data Mining Algorithms 6cp
Total 24cp

**CBK90161 Electives**
Select 6 credit points from the following options: 6cp
31080 Digital Multimedia 6cp
31097 IT Operations Management 6cp
31335 Extreme Programming 6cp
31748 Programming on the Internet 6cp
31777 Human-Computer Interaction 6cp
31927 Application Development with .NET 6cp
31735 Information Systems and Organisation Development 6cp
31950 Networked Enterprise Design 6cp
31096 Managing Client / Vendor Relations 6cp
31100 Enterprise Development with .NET 6cp
31338 Network Servers 6cp
31030 Project 6cp
31091 Mobile Computing Project 6cp
31005 Data Mining Algorithms 6cp
Total 6cp

**CBK90162 Electives (Non-IT)**
Free choice of electives.

**CBK90166 Electives (International Business Studies sub-major)**
99863 Exchange Subject 1 6cp
99864 Exchange Subject 2 6cp
99865 Exchange Subject 3 6cp
99866 Exchange Subject 4 6cp
Total 24cp

**CBK90167 Taxation Law sub-major choice**
Select 6 credit points from the following options: 6cp
79066 Advanced Taxation Law 6cp
79021 International Aspects of Australian Taxation Law 6cp
79022 GST and other Indirect Taxes 6cp
79026 Estate Planning (UG) 6cp
79027 Retirement Planning (UG) 6cp
Total 6cp

**CBK90169 Major choice (Business)**
Select 48 credit points from the following options: 48cp
MAJ08437 Accounting 48cp
MAJ09401 Business Law 48cp
MAJ09209 Economics 48cp
MAJ08440 Finance 48cp
MAJ08446 Human Resource Management 48cp
MAJ08442 International Business 48cp
MAJ08438 Management 48cp
MAJ08441 Marketing 48cp
MAJ08068 Financial Services 48cp
MAJ08116 Marketing Communication 48cp
Total 48cp

**CBK90170 Major/Two sub-majors/Sub-major + four electives**
Select 48 credit points from the following options: 48cp
MAJ08437 Accounting 48cp
MAJ09401 Business Law 48cp
MAJ09209 Economics 48cp
MAJ08440 Finance 48cp
MAJ08446 Human Resource Management 48cp
MAJ02041 Information Technology 48cp
MAJ08442 International Business 48cp
MAJ08438 Management 48cp
MAJ08441 Marketing 48cp
MAJ08116 Marketing Communication 48cp
MAJ08445 Sport Management 48cp
MAJ08443 Tourism Management 48cp
SMJ08131 Advanced Advertising 24cp
SMJ08137 Advertising 24cp
SMJ02036 Business Information Systems 24cp
SMJ09030 Business Law 24cp
SMJ09058 Econometrics 24cp
SMJ09028 Economics 24cp
SMJ08203 Event Management 24cp
SMJ08123 Finance 24cp
SMJ08214 Financial Planning 24cp
SMJ08116 Financial Reporting 24cp
SMJ08215 Financial Services 24cp
SMJ08414 Human Resource Development 24cp
SMJ08128 Human Resource Management 24cp
SMJ08117 International Accounting 24cp
SMJ08139 International Business Studies 24cp
SMJ08129 International Management 24cp
SMJ09034 International Studies 24cp
SMJ02037 Information Technology 24cp
SMJ09035 Language other than English 24cp
SMJ08130 Management 24cp
SMJ08109 Management Consulting 24cp
SMJ08195 Management Reporting 24cp
SMJ08138 Marketing 24cp
SMJ08132 Marketing Research 24cp
SMJ0107 Mathematics 24cp
SMJ08211 Public Relations 24cp
Total 48cp
SMJ01025 Quantitative Management 24cp
SMJ08120 Small Business Accounting 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08126 Sport Management 24cp
SMJ10009 Statistics 24cp
SMJ08204 Strategic Marketing 24cp
SMJ09033 Taxation Law 24cp
SMJ08127 Tourism Management 24cp
CBK90171 Electives 48cp

CBK90171 Electives
Free choice of electives.

CBK90173 Major choice
Select 120 credit points from the following options: 120cp

MAJ03005 Electrical Engineering 120cp
MAJ03007 Mechanical Engineering 120cp
MAJ03012 Mechanical and Mechatronic Engineering 120cp
MAJ03001 Civil Engineering 120cp
MAJ03002 Civil and Environmental Engineering 120cp
MAJ03029 Innovation Engineering 120cp
MAJ03446 ICT Engineering 120cp
CBK90010 No specified major 120cp

Total 120cp

CBK90174 Major choice (Engineering)
Select 102 credit points from the following options: 102cp

MAJ03019 Mechanical Engineering 102cp
MAJ03017 Electrical Engineering 102cp
MAJ03014 Civil and Environmental Engineering 102cp
MAJ03013 Civil Engineering 102cp
CBK90053 No specified major 102cp
MAJ03448 ICT Engineering 102cp

Total 102cp

CBK90175 Science major choice
Select 78 credit points from the following options: 78cp

MAJ01087 Applied Chemistry 78cp
MAJ01088 Applied Physics 78cp
MAJ01089 Environmental Science 78cp
MAJ01090 Biomedical Science 78cp
MAJ01091 Nanotechnology 78cp
STM09348 Core subjects (Medical Science) 78cp
STM09274 Core subjects (Biotechnology) 78cp
MAJ01095 Mathematics 78cp

Total 78cp

CBK90176 Major choice (Engineering)
Select 114 credit points from the following options: 114cp

MAJ03028 Electrical Engineering 114cp
MAJ03030 Mechanical Engineering 114cp
MAJ03450 Mechanical and Mechatronic Engineering 114cp
MAJ03025 Civil Engineering 114cp
MAJ03026 Civil and Environmental Engineering 114cp
MAJ03449 ICT Engineering 114cp
CBK90036 No specified major 114cp

Total 114cp

CBK90178 Major choice
Select 84 credit points from the following options: 84cp

MAJ03413 Electrical Engineering 84cp
MAJ03139 Mechanical Engineering 84cp
MAJ03134 Civil Engineering 84cp
MAJ03412 Civil and Environmental Engineering 84cp
MAJ03024 Innovation Engineering 84cp
MAJ03447 ICT Engineering 84cp
STM09357 No specified major 84cp

Total 84cp

CBK90185 Business Information Technology major choice
Select 36 credit points from the following options: 36cp

32509 Interaction Design 6cp
32531 Global Information Systems 6cp
32536 Advanced Software Modelling 6cp
32702 Contemporary Telecommunications 6cp
32208 Information Systems Strategy 6cp
32148 Enterprise Computing 6cp
42900 Sustainability and Information Systems 6cp

Total 36cp

CBK90186 Major/Two sub-majors/Sub-major + four electives
Select 48 credit points from the following options: 48cp

MAJ09209 Economics 48cp
MAJ08440 Finance 48cp
MAJ08446 Human Resource Management 48cp
MAJ02041 Information Technology 48cp
MAJ08442 International Business 48cp
MAJ08438 Management 48cp
MAJ08441 Marketing 48cp
MAJ08445 Sport Management 48cp
MAJ08443 Tourism Management 48cp
SMJ01007 Mathematics 24cp
SMJ01001 Statistics 24cp
SMJ01025 Quantitative Management 24cp
SMJ02036 Business Information Systems 24cp
SMJ02037 Information Technology 24cp
SMJ08109 Management Consulting 24cp
SMJ08116 Financial Reporting 24cp
SMJ08117 International Accounting 24cp
SMJ08120 Small Business Accounting 24cp
SMJ08123 Finance 24cp
SMJ08126 Sport Management 24cp
SMJ08127 Tourism Management 24cp
SMJ08128 Human Resource Management 24cp
SMJ08129 International Management 24cp
SMJ08130 Management 24cp
SMJ08137 Advertising 24cp
SMJ08138 Marketing 24cp
SMJ08139 International Business Studies 24cp
SMJ08141 Human Resource Development 24cp
SMJ09028 Economics 24cp
SMJ09030 Business Law 24cp
SMJ09033 Taxation Law 24cp
SMJ09034 International Studies 24cp
SMJ09035 Language other than English 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08187 Electives 24cp
SMJ08195 Management Reporting 24cp
SMJ08204 Strategic Marketing 24cp
SMJ08131 Advanced Advertising 24cp
SMJ08132 Marketing Research 24cp
SMJ08203 Event Management 24cp
SMJ08211 Public Relations 24cp
SMJ09058 Econometrics 24cp
SMJ08214 Financial Planning 24cp
SMJ08116 Marketing Communication 48cp
MAJ09401 Business Law 48cp
MAJ08068 Financial Services 48cp
SMJ08215 Financial Services 24cp

Total 48cp
The electives chosen should comprise postgraduate subjects only.

**Completion requirements**
Free choice of electives.

**CBK90222 Major/Electives**
Select 24 credit points from the following options: 24cp

- 35322 Advanced Analysis 6cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35361 Design and Analysis of Experiments 6cp
- 35362 Stochastic Processes 6cp
- 35363 High Performance Computing 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp
- MAJO1024 Quantitative Management Science 24cp
- MAJO1023 Statistics 24cp
- MAJO1086 Mathematics 24cp

**CBK90223 Science major choice**
Free choice of electives.

**CBK90225 Core subjects choice**
Select 42 credit points from the following options: 42cp

- 32009 Advanced Routing Principles 6cp
- 32010 Wide Area Network Implementation 6cp
- 32011 Multilayer Switched Networks 6cp
- 32109 Troubleshooting Converged Networks 6cp
- 32250 UNIX Systems Administration 6cp
- 32255 Web Services Technologies and Applications 6cp
- 32257 Internetwork Design 6cp
- 32258 Network Management 6cp
- 32258 Network Security 6cp
- 32549 Advanced Internet Programming 6cp
- 32551 Mobile Commerce Technologies 6cp
- 32521 WANS and VLANS 6cp
- 32522 Internet Quality of Service (QoS) 6cp
- 32702 Contemporary Telecommunications 6cp
- 32931 Technology Research Methods 6cp
- 95563 Digital Media Development Process 6cp
- 95564 Digital Media Technologies 6cp
- 95567 Digital Media in Social Context 6cp
- 32309 Interaction Design 6cp
- 79203 Business Law and Ethics 6cp
- 32310 Network Security Appliances 6cp
- 32309 Digital Forensics 6cp
- 32209 Advanced Topics in Computer Networks 6cp
- 32253 Operating Systems for Network Security 6cp
- 32252 IP Telephony and Voice over IP 6cp
- 32013 .NET Enterprise Development 6cp
- 32541 Project Management 6cp
- 32998 .NET Application Development 6cp
- 49227 Wireless Sensor Networks 6cp
- 49048 Wireless Networking Technologies 6cp
- 49099 GSM, GPRS and EDGE Technologies 6cp
- 49110 3G Mobile Communication Systems 6cp
- 32516 Internet Programming 6cp
- 42901 Object-Relational Databases 6cp

Select one of the following:

- 32933 Research Project 6cp
- 32934 Research Project 12cp

Total 42cp

**CBK90226 Specialist option choice**
Select 24 credit points from the following options:

- STM90355 Biomedical Technology stream 24cp
- STM90354 Computer-aided Design stream 24cp
- STM90352 Sustainable Energy Systems stream 24cp
- STM90353 Intelligent Systems stream 24cp

Total 24cp

**CBK90227 Elective**
Free choice of electives.

**CBK90228 Electives**
Select 18 credit points from the following options: 18cp

- 48023 Programming Fundamentals 6cp
- 48024 Applications Programming 6cp
- 48027 Language and Contexts of Australian Engineering 6cp
- 48071 Engineering Analytical Modelling 6cp
- 48080 Introduction to Innovation 6cp
- 48211 Review of External Course 2cp
- 48221 Engineering Computations 6cp
- 48330 Soil Behaviour 6cp
- 48331 Mechanics of Solids 6cp
- 48340 Construction 6cp
- 48349 Structural Analysis 6cp
- 48350 Environmental and Sanitation Engineering 6cp
- 48352 Construction Materials 6cp
- 48359 Structural Design 1 6cp
- 48360 Geotechnical Engineering 6cp
- 48362 Hydraulics and Hydrology 6cp
- 48369 Structural Design 2 6cp
- 48370 Road and Transport Engineering 6cp
- 48389 Computer Modelling and Design 6cp
- 48430 Embedded C 6cp
- 48433 Software Architecture 6cp
- 48434 Embedded Software 6cp
- 48440 Software Engineering Practice 6cp
- 48441 Introductory Digital Systems 6cp
- 48450 Real-time Operating Systems 6cp
- 48451 Advanced Digital Systems 6cp
- 48520 Electronics and Circuits 6cp
- 48530 Circuit Analysis 6cp
- 48531 Electromechanical Automation 6cp
- 48540 Signals and Systems 6cp
- 48541 Signal Theory 6cp
- 48550 Renewable Energy Systems 6cp
- 48551 Analog Electronics 6cp
- 48560 Introductory Control 6cp
- 48561 Power Electronics and Drives 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48610 Introduction to Mechanical and Mechatronic Engineering 6cp
- 48620 Fundamentals of Mechanical Engineering 6cp
- 48621 Manufacturing Engineering 6cp
- 48622 Mechatronics 1 6cp
- 48623 Mechatronics 2 6cp
- 48640 Machine Dynamics 6cp
- 48641 Fluid Mechanics 6cp
- 48642 Strength of Engineering Materials 6cp
- 48650 Mechanical Design 2 6cp
- 48651 Thermodynamics 6cp
- 48660 Dynamics and Control 6cp
- 48661 Heat Transfer 6cp
- 48662 Mechanical Applications 6cp
- 48663 Advanced Manufacturing 6cp
- 48670 Mechanical and Mechatronic Design 6cp
- 48720 Network Fundamentals 6cp
- 48721 Strategic e-Business Technologies 6cp
- 48730 Authentication and System Security 6cp
- 48740 Communications Networks 6cp
CBK90230 Elective
Select 6 credit points from the following options: 6cp

2900 Sustainability and Information Systems 6cp
2901 Object-Relational Databases 6cp
2902 Interior Routing and High Availability 6cp
2903 Multi Protocol Label Switching 6cp
2904 Cloud Computing and Software as a Service 6cp
4901 Judgment and Decision Making 6cp
4902 Managing Projects 6cp
4903 Economic Evaluation 6cp
4904 Systems Engineering for Managers 6cp
4906 Risk Management in Engineering 6cp
4913 Managing Information Technology in Engineering 6cp
4916 Technology and Innovation Management 6cp
4921 Evaluation of Infrastructure Investments 6cp
4922 Energy Resources and Technology 6cp
4923 Energy and Environmental Economics 6cp
4924 Energy Modelling 6cp
4925 Method for Energy Analysis 6cp
4926 Electricity Sector Planning and Restructuring 6cp
4927 Energy Demand Analysis and Forecasting 6cp
4928 Policy and Planning of Energy Conservation 6cp
4929 Environmental Policy for Energy Systems 6cp
4947 Finite Element Analysis 6cp
4948 Wireless Networking Technologies 6cp
4949 Air and Noise Pollution 6cp
4989 Leadership and Responsibility 6cp
4998 Engineering Financial Control 6cp
4999 GIS, GPRS and EDGE Technologies 6cp
49102 Traffic and Transportation 6cp
49105 Water Supply and Wastewater Management 6cp
49106 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49108 Local Government Powers and Practice 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49110 3G Mobile Communication Systems 6cp
49115 Facade Engineering 6cp
49116 Contaminated Site and Waste Remediation 6cp
49117 Floodplain Risk Management in NSW 6cp
49118 Applied Geotechnics 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49121 Environmental Assessment and Planning 6cp
49122 Ecological Engineering 6cp
49123 Waste and Pollution Management 6cp
49124 Water Quality Management 6cp
49125 Environmental Risk Assessment 6cp
49126 Environmental Management of Land 6cp
49127 On-site Water and Wastewater Treatment 6cp
49131 Bridge Design 6cp
49132 Stability of Structures 6cp
49133 Steel and Composite Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49135 Wind Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49137 Prestressed Concrete Design 6cp
49138 Concrete Technology and Practice 6cp
49139 Rehabilitation of Concrete Structures 6cp
49140 Internal Combustion Engines 6cp
49141 Materials Handling 6cp
49142 Airconditioning 6cp
49143 Vibration Analysis 6cp
49144 Design Optimisation for Manufacturing 6cp
49145 Concrete Design 6cp
49146 Ecological Engineering 6cp
49147 Structural Behaviour and Design 6cp
49148 Engineered Natural Water Treatment Systems 6cp
49149 Facade Engineering 6cp
49150 Floodplain Risk Management in NSW 6cp
49151 Concrete Technology and Practice 6cp
49152 Rehabilitation of Concrete Structures 6cp
49154 Object-oriented Technology 6cp
49155 Software Project Management 6cp
49156 Web Technologies 6cp
49157 Advanced Robotics 6cp
49158 Neural Networks and Fuzzy Logic 6cp
49159 Emergency Management 6cp
49160 Vehicle Design 6cp
49161 Energy Conversion 6cp
49162 Fundamentals of Electrical Engineering 6cp
49163 Power Circuit Theory 6cp
49164 Biomedical Instrumentation 6cp
49165 Electrical Machines 6cp
49166 Advanced Control 6cp
49167 Digital Electronics 6cp
49168 Power Systems Analysis and Design 6cp
49169 Power Systems Operation and Protection 6cp
49170 Mechanical Design 6cp
49171 Mechanical Vibration and Measurement 6cp
49172 Control of Mechatronic Systems 6cp
49173 Sensors and Signal Processing 6cp
49174 Computer-aided Mechanical Design 6cp
49175 Turbomachines 6cp
49176 Applied Geotechnics 6cp
49177 Wireless Sensor Networks: Technology and Applications 6cp
49178 Problematic Soils and Ground Improvement Techniques 6cp
49179 Software Project Management 6cp
49180 Wireless Sensor Networks 6cp
49181 Telecommunication Networks Management 6cp
49182 Object-oriented Technology 6cp
49183 Telecommunications Engineering Review 6cp
49184 Advanced Soil Mechanics and Foundation Design 6cp
49185 Finite Element Analysis 6cp
49186 Leadership and Responsibility 6cp
49187 Engineering Financial Control 6cp
49188 Engineering Technical Anaylsis 6cp
49189 Environmental Policy for Energy Systems 6cp
49190 Finite Element Analysis 6cp
49191 Wireless Networking Technologies 6cp
49192 Air and Noise Pollution 6cp
49193 Leadership and Responsibility 6cp
49194 Engineering Financial Control 6cp
49195 Internet Communication Engineering 6cp
49196 Energy Conservation Technologies 6cp
49197 Energy Modelling 6cp
49198 Energy Modelling 6cp
49199 Energy Modelling 6cp
49200 Energy Modelling 6cp
49201 Energy Modelling 6cp
49202 Energy Modelling 6cp
CBK90231 Electives (International Studies)  
Select 24 credit points from the following options:  24cp

57025 Intercultural and International Communication  8cp
97401 French Language and Culture 1  8cp
97402 French Language and Culture 2  8cp
97403 French Language and Culture 3  8cp
97101 Chinese Language and Culture 1  8cp
97102 Chinese Language and Culture 2  8cp
97103 Chinese Language and Culture 3  8cp
97601 German Language and Culture 1  8cp
97602 German Language and Culture 2  8cp
97603 German Language and Culture 3  8cp
97801 Italian Language and Culture 1  8cp
97802 Italian Language and Culture 2  8cp
97803 Italian Language and Culture 3  8cp
97201 Japanese Language and Culture 1  8cp
97202 Japanese Language and Culture 2  8cp
97203 Japanese Language and Culture 3  8cp
97501 Spanish Language and Culture 1  8cp
97502 Spanish Language and Culture 2  8cp
97503 Spanish Language and Culture 3  8cp
97011 Research and Reporting for Journalism  8cp
97012 Regulation of the Media  8cp
57014 Feature Writing  8cp

CBK90232 Electives (Science UG)  
Free choice of electives.

CBK90233 Electives  
Free choice of electives.

CBK90234 Electives (Cultural Studies)  
Free choice of electives.

CBK90235 Major choice  
Select one of the following:  84cp
MAJ08914 Human Resource Development  84cp
MAJ08915 Management  84cp
STM90365 No specified major  84cp
Total 84cp

CBK90236 Electives (Journalism)  
Select 8 credit points from the following options:  8cp
57013 Journalism Studies  8cp
57012 Regulation of the Media  8cp
57014 Feature Writing  8cp
Total 8cp

CBK90237 Journalism subjects  
Select 8 credit points from the following options:  8cp
97001 Online Documentary  8cp
Total 8cp

CBK90238 Electives  
Select 8 credit points from the following options:  8cp
50001 Mise-en-Scene  8cp
57061 Issues in Documentary  8cp
Total 8cp

CBK90239 400-level Media Arts subjects  
Select 8 credit points from the following options:  8cp
979518 Contemporary Latin(o) Americas  8cp
Total 8cp
CBK90240 Electives
Select 8 credit points from the following options:  
50001 Online Documentary 8cp  
57109 Film Animation 8cp  
Total 8cp

CBK90241 Electives (Sound)
Free choice of electives.

CBK90242 Sub-major/Electives (DAB)
Select 24 credit points from the following options:  
SMJ09035 Language other than English 24cp  
SMJ09036 Specialist Country Studies 24cp  
SMJ08157 Business Accounting 24cp  
SMJ10020 Architectural Studies 24cp  
SMJ08198 Advertising Principles 24cp  
SMJ08197 Marketing Principles 24cp  
SMJ08206 Research Methods 24cp  
SMJ08211 Public Relations 24cp  
SMJ08212 Advertising 24cp  
SMJ09048 Transnational Studies 24cp  
SMJ09049 Reading Australia 24cp  
SMJ09050 Environmental Studies 24cp  
SMJ09051 Bodies, Genders, Rights 24cp  
SMJ10032 Media Studies 24cp  
SMJ10033 Screen Studies 24cp  
SMJ10041 Writing and Cultural Studies 24cp  
SMJ09053 Social Inquiry 24cp  
SMJ09043 Information 24cp  
SMJ10034 Journalism 24cp  
SMJ09052 Aboriginal Studies 24cp  
SMJ09054 Information and Media 24cp  
Total 24cp

CBK90244 Sub-major/Electives
Select 24 credit points from the following options:  
CBK90127 Electives (Architecture) 24cp  
SMJ04016 Architectural Experience 24cp  
Total 24cp

CBK90246 Electives
Free choice of electives.

CBK90247 Sub-major choice
Select 24 credit points from the following options:  
SMJ02043 Internetworking 24cp  
SMJ02044 Mobile Computing 24cp  
SMJ02045 Applications Development 24cp  
SMJ02047 IT Management 24cp  
SMJ02039 Computer Graphics and Animation 24cp  
SMJ02040 Software Engineering 24cp  
SMJ08163 Internet Business Technology 24cp  
Total 24cp

CBK90248 Major choice
Select 30 credit points from the following options:  
MAJ09313 Commercial Law 30cp  
MAJ09320 Dispute Resolution 30cp  
MAJ09367 Family Law 30cp  
MAJ09323 Information Technology Law 30cp  
MAJ09363 Industrial and Intellectual Property Law 30cp  
MAJ09322 International Law 30cp  
MAJ09364 International Trade Law 30cp  
CBK90054 No specified major 30cp  
Total 30cp

CBK90249 Sub-major/Electives
Select 24 credit points from the following options:  
CBK90074 Electives 24cp  
SMJ08157 Business Accounting 24cp  
SMJ09040 Introductory Economics 24cp  
SMJ08159 Employment Relations 24cp  
SMJ08160 International Management 24cp  
SMJ10010 Electronics and Computer Interfacing 24cp  
SMJ10012 Physics 24cp  
SMJ10009 Statistics 24cp  
SMJ02057 Scientific Computing 24cp  
SMJ09034 International Studies 24cp  
SMJ09035 Language other than English 24cp  
SMJ09036 Specialist Country Studies 24cp  
SMJ09045 Information Technology Law 24cp  
SMJ10026 Quantitative Management 24cp  
SMJ08188 Accounting for Small Business 24cp  
SMJ08198 Advertising Principles 24cp  
SMJ08197 Marketing Principles 24cp  
SMJ08196 Innovation 24cp  
SMJ08195 Language other than English 24cp  
SMJ08194 Specialist Country Studies 24cp  
SMJ08193 Information Technology Law 24cp  
SMJ08192 Quantitative Management 24cp  
SMJ08191 Accounting for Small Business 24cp  
SMJ08190 Advertising Principles 24cp  
SMJ08189 Marketing Principles 24cp  
SMJ08188 Innovation 24cp  
SMJ08187 Language other than English 24cp  
SMJ08186 Specialist Country Studies 24cp  
SMJ08185 Information Technology Law 24cp  
SMJ08184 Quantitative Management 24cp  
SMJ08183 Accounting for Small Business 24cp  
SMJ08182 Advertising Principles 24cp  
SMJ08181 Marketing Principles 24cp  
SMJ08180 Innovation 24cp  
Total 24cp

CBK90250 Electives (Humanities and Social Sciences)
Select 8 credit points from the following options:  
50001 Online Documentary 8cp  
50190 Professional Information Project 8cp  
50251 Genocide Studies 8cp  
57147 Enterprise Content Management 8cp  
Total 8cp

CBK90251 Electives
Select 32 credit points from the following options:  
58324 Investigating Media, Reflective Practices 8cp  
58226 Media, Mediation, Power 8cp  
58225 Introduction to Film Studies 8cp  
58323 Contemporary World Cinema 8cp  
58224 Australian Pasts and Places 8cp  
50001 Online Documentary 8cp  
58223 Social Bodies 8cp  
58316 Sex, Race and Empire 8cp  
58222 Global Politics from Above and Below 8cp  
58318 Gender, Culture, Power 8cp  
50190 Professional Information Project 8cp  
58117 Principles of Public Relations 8cp  
58128 Strategic Public Relations 8cp  
58118 Principles of Advertising 8cp  
58129 Advertising Campaign Practice 8cp  
58122 Introduction to Social Inquiry 8cp  
50251 Genocide Studies 8cp  
97101 Chinese Language and Culture 1 8cp  
97102 Chinese Language and Culture 2 8cp  
97401 French Language and Culture 1 8cp  
97402 French Language and Culture 2 8cp  
97601 German Language and Culture 1 8cp  
97602 German Language and Culture 2 8cp  
97801 Italian Language and Culture 1 8cp  
97802 Italian Language and Culture 2 8cp  
97201 Japanese Language and Culture 1 8cp  
97202 Japanese Language and Culture 2 8cp  
97501 Spanish Language and Culture 1 8cp  
97502 Spanish Language and Culture 2 8cp  
58110 Introduction to Journalism 8cp  
58227 Balancing World Views: Introduction to Aboriginal Cultures 8cp  
58326 Australian Aboriginal Politics and History 8cp  
58328 The New Economy of Post-Nature 8cp  
58320 Australian Fiction 8cp  
58111 Reporting with Sound and Image 8cp  
58112 Reporting and Editing for Print and Online Journalism 8cp  
58111 Reporting with Sound and Image 8cp  
5816 Text and Context 8cp  
58120 Creativity and Culture 8cp  
58121 Fictional Forms 8cp  
58123 Society, Economy and Globalisation 8cp  
58124 Local Transformations 8cp  
58125 Creative Information Design 8cp  
58126 Information Discovery and Analysis 8cp  
58127 Information Cultures 8cp  
58317 Transnational Media 8cp  
58319 Rights and Territories 8cp  
58321 Australian Film 8cp  
58322 Screening the Past 8cp  
58325 Audiences, Users, Publics, Communities 8cp  
58327 Indigenous Futures 8cp  
58228 Climate Change: Politics and Ecology 8cp  
58329 Culture, Science and Nature 8cp  
58999 Professional Internship 8cp  
58900 Poetry 8cp  
58901 Screenwriting 8cp  
58902 Writing Through Genre 8cp  
Total 32cp
### CBK90252 Electives (Media Arts and Production)

Select 32 credit points from the following options: 32cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>58224</td>
<td>Australian Past and Places</td>
<td>8cp</td>
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<tr>
<td>58223</td>
<td>Social Bodies</td>
<td>8cp</td>
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<td>Sex, Race and Empire</td>
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<td>Global Politics from Above and Below</td>
<td>8cp</td>
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<tr>
<td>58318</td>
<td>Gender, Culture, Power</td>
<td>8cp</td>
</tr>
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<td>58117</td>
<td>Principles of Public Relations</td>
<td>8cp</td>
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<td>Principles of Advertising</td>
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<td>Advertising Campaign Practice</td>
<td>8cp</td>
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<td>Introduction to Social Inquiry</td>
<td>8cp</td>
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<td>58128</td>
<td>Strategic Public Relations</td>
<td>8cp</td>
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<td>8cp</td>
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<td>58227</td>
<td>Balancing World Views: Introduction to Aboriginal Cultures</td>
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<td>58326</td>
<td>Australian Aboriginal Politics and History</td>
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<tr>
<td>58328</td>
<td>The New Economy of Post-Nature</td>
<td>8cp</td>
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<tr>
<td>58210</td>
<td>Australian Fiction</td>
<td>8cp</td>
</tr>
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<td>58123</td>
<td>Society, Economy and Globalisation</td>
<td>8cp</td>
</tr>
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<td>58116</td>
<td>The Ecology of Public Communication</td>
<td>8cp</td>
</tr>
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<td>58119</td>
<td>Text and Context</td>
<td>8cp</td>
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<tr>
<td>58111</td>
<td>Reporting with Sound and Image</td>
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<td>Reporting and Editing for Print and Online Journalism</td>
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<td>58126</td>
<td>Information Discovery and Analysis</td>
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<td>58221</td>
<td>Information Cultures</td>
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<td>58226</td>
<td>Media, Mediation, Power</td>
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<td>58319</td>
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<td>58325</td>
<td>Audiences, Users, Publics, Communities</td>
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<tr>
<td>58327</td>
<td>Indigenous Futures</td>
<td>8cp</td>
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<td>58228</td>
<td>Climate Change: Politics and Ecology</td>
<td>8cp</td>
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<td>Culture, Science and Nature</td>
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<td>Professional Internship</td>
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<td>58900</td>
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<td>58901</td>
<td>Screenwriting</td>
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<td>58902</td>
<td>Writing Through Genre</td>
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### CBK90254 Dissertation/In-country study

Select 24 credit points from the following options: 24cp

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<th>Course Title</th>
<th>Credit Points</th>
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<td>978137</td>
<td>In-country Study: France</td>
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<tr>
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<td>In-country Study: Switzerland</td>
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<td>In-country Study: Germany</td>
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<td>In-country Study: Italy</td>
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<td>In-country Study: China</td>
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<td>978145</td>
<td>In-country Study: Argentina</td>
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### CBK90255 New Media choice

Select 8 credit points from the following options: 8cp

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### CBK90256 400-level Media Arts subjects

Select 8 credit points from the following options: 8cp

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<td>Mise-en-Scene</td>
<td>8cp</td>
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<tr>
<td>57061</td>
<td>Issues in Documentary</td>
<td>8cp</td>
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### CBK90257 Media Production subjects

Free choice of electives.

### CBK90258 Media Arts subjects

Select 8 credit points from the following options: 8cp

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
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<td>57061</td>
<td>Issues in Documentary</td>
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<td>Online Documentary</td>
<td>8cp</td>
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<td></td>
<td><strong>Total 8cp</strong></td>
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</table>
CBK90259 Electives (New Media)
Select 8 credit points from the following options:  8cp
50001 Online Documentary 8cp
Total 8cp

CBK90260 Writing subjects
Select 8 credit points from the following options:  8cp
57041 Narrative Writing 8cp
57031 Non-fiction Writing 8cp
57145 Freelance Writing 8cp
Total 8cp

CBK90261 Electives (Information and Knowledge Management)
Select 8 credit points from the following options:  8cp
57087 Knowledge Management and the Organisation 8cp
57103 Knowledge Management Strategies 8cp
57089 Information Research and Data Analysis 8cp
Total 8cp

CBK90262 Electives (Information and Knowledge Management)
Select 24 credit points from the following options:  24cp
57088 Digital Libraries and Collections 8cp
57084 Information Architecture and Design 8cp
57087 Knowledge Management and the Organisation 8cp
57103 Knowledge Management Strategies 8cp
57089 Information Research and Data Analysis 8cp
Total 24cp

CBK90263 100-level subjects (Design Studies PG)
Select 24 credit points from the following options:  24cp
85604 Reflective Practice 6cp
85500 Design Futures: Creative Technologies 6cp
85504 Design Futures: Sustainable Lifestyles 6cp
85505 Design Interventions: Making Theories 6cp
85506 Design Differences: Intercultural Asia 6cp
85509 Design Differences: Community Identities 6cp
85601 Design Interventions: Business Innovation 6cp
85602 Interdisciplinary Design Lab: Undergraduate 6cp
85603 Interdisciplinary Design Experience: Undergraduate 6cp
85701 Research Based Designing 6cp
Total 24cp

CBK90265 Language, Literacy and Numeracy subjects
Select 24 credit points from the following options:  24cp
013095 Global Englishes 6cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013107 Phonology and Pronunciation 6cp
013132 Technology Enhanced Language Learning 6cp
013137 Educational Leadership 6cp
013141 Language Programming and Assessment 6cp
013159 Independent Study Project 2 6cp
Total 24cp

CBK90266 Language, Literacy and Numeracy subjects
Select 12 credit points from the following options:  12cp
013087 Discourse Analysis 6cp
013095 Global Englishes 6cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013107 Phonology and Pronunciation 6cp
013132 Technology Enhanced Language Learning 6cp
013137 Educational Leadership 6cp
013141 Language Programming and Assessment 6cp
013159 Independent Study Project 2 6cp
Total 12cp

CBK90267 Language, Literacy and Numeracy subjects
Select 18 credit points from the following options:  18cp
013098 Independent Study Project 1 6cp
013104 Language and Power 6cp
013105 Language Development 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
013132 Technology Enhanced Language Learning 6cp
013135 Independent Study Project 2 6cp
Total 18cp

CBK90268 Major choice (Creative Arts)
Select 24 credit points from the following options:  24cp
MAJ10006 Children’s Art 24cp
MAJ10007 Youth Performance Studies 24cp
STM90109 No specified specialisation 24cp
Total 24cp

CBK90269 Language, Literacy and Numeracy subjects
Select 6 credit points from the following options:  6cp
013095 Global Englishes 6cp
013099 Individualised Project 1 6cp
013104 Language and Power 6cp
013107 Phonology and Pronunciation 6cp
013132 Technology Enhanced Language Learning 6cp
013137 Educational Leadership 6cp
013141 Language Programming and Assessment 6cp
013159 Independent Study Project 2 6cp
Total 6cp

CBK90270 Major choice
Select 24 credit points from the following options:  24cp
MAJ07041 Personal Development, Health and Physical Education 24cp
MAJ07047 Technology and Applied Studies 24cp
MAJ07048 Visual Arts 24cp
MAJ07049 English 24cp
MAJ07050 ESL 24cp
MAJ10012 Science /TAS (Computing) 24cp
Total 24cp

CBK90271 Specialisation choice
Select 24 credit points from the following options:  24cp
STM90431 Mathematics specialisation 24cp
STM90432 Science and Technology specialisation 24cp
STM90433 Educational Computing specialisation 24cp
STM90434 Education specialisation 24cp
STM90435 International specialisation 24cp
STM90436 English specialisation 24cp
STM90437 Human Society and its Environment specialisation 24cp
STM90438 Languages specialisation 24cp
STM90439 PDHE specialisation 24cp
STM90440 Art specialisation 24cp
STM90441 Children’s Theatre and the Creative Arts specialisation 24cp
STM90442 Music specialisation 24cp
Total 24cp

CBK90272 Major choice
Select 66 credit points from the following options:  66cp
MAJ08953 Human Resource Development 66cp
MAJ09368 Aboriginal Studies and Language, Literacy and Numeracy 66cp
MAJ09370 Language, Literacy and Numeracy 66cp
MAJ09371 Vocational Education 66cp
Total 66cp
CBK90273 Electives
Select 18 credit points from the following options: 18cp
020703 Issues in Art Education 6cp
020704 Studio Practice in Visual Arts 6cp
021702 ICT in Primary Education: Current Issues and Applications 6cp
022601 Learning Beyond the Classroom 6cp
022602 Independent Study 6cp
022603 Teaching Across the Curriculum 6cp
023505 Educational Research 6cp
023614 International Perspectives on Education 6cp
025621 School and Community Relations 6cp
024705 Children’s Literature and Multi-Literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Childrens Books 6cp
024711 Language, Literacy and Education 6cp
024712 Approaches to the Teaching of English 6cp
024713 Teaching English to International Students 6cp
026702 Music and Society 6cp
Total 18cp

CBK90274 Media Arts subjects
Select 8 credit points from the following options: 8cp
57599 Miss En Scro 8cp
57061 Issues in Documentary 8cp
Total 8cp

CBK90275 Advanced Visual Communications Technology subjects
Select 6 credit points from the following options: 6cp
87639 VC Technology: Advanced Web Media 6cp
87649 VC Technology: Advanced Interactive Media 6cp
87659 VC Technology: Advanced Video Media 6cp
87669 VC Technology: Digital Photo Media 6cp
Total 6cp

CBK90278 Electives
Select 42 credit points from the following options: 42cp
020703 Issues in Art Education 6cp
020704 Studio Practice in Visual Arts 6cp
021702 ICT in Primary Education: Current Issues and Applications 6cp
022601 Learning Beyond the Classroom 6cp
022602 Independent Study 6cp
022603 Teaching Across the Curriculum 6cp
023505 Educational Research 6cp
023614 International Perspectives on Education 6cp
025621 School and Community Relations 6cp
024705 Children’s Literature and Multi-Literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Childrens Books 6cp
024711 Language, Literacy and Education 6cp
024712 Approaches to the Teaching of English 6cp
024713 Teaching English to International Students 6cp
026702 Music and Society 6cp
Total 42cp

CBK90280 Specialisation choice
Select 24 credit points from the following options: 24cp
35241 Optimisation in Quantitative Management 6cp
35244 Network and Combinatorial Optimisation 6cp
35363 Stochastic Models 6cp
35212 Computational Linear Algebra 6cp
35231 Differential Equations 6cp
35232 Advanced Calculus 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35355 Quality Control 6cp
35361 Stochastic Processes 6cp
35353 Design and Analysis of Experiments 6cp
35252 Mathematical Statistics 6cp
Total 24cp

CBK90283 Options (Law PG)
Select 18 credit points from the following options: 18cp
77701 International Economic Law (PG) 6cp
77704 European Union Law 6cp
77715 Banking Law 6cp
77716 International Trade Law 6cp
77724 International Banking and Finance Law 6cp
77734 Law and Medicine 6cp
77740 Research Paper 6cp
77745 Negotiation 6cp
77746 Advanced Mediation 6cp
77751 International Commercial Arbitration 6cp
77752 Commercial Arbitration (Domestic) 6cp
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<th>Credit Points</th>
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<td>77761</td>
<td>Dispute Resolution in Commerce</td>
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<td>77767</td>
<td>Taxation Administration</td>
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<tr>
<td>77783</td>
<td>International Commercial Dispute Resolution</td>
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<td>77792</td>
<td>Crisis Negotiation</td>
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<td>77794</td>
<td>International Environmental Law</td>
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<td>Taxation of Business Entities</td>
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<td>77850</td>
<td>Psychology and Dispute Resolution</td>
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<td>Workplace Dispute Resolution</td>
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<td>Designs Law and Practice</td>
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<td>Wickedness and Vice</td>
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<td>Complex Financial and Property Disputes (in Family Law)</td>
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<td>Communications and Technology: A Primer</td>
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**CBK90284 Sub-major/Electives**

Select 24 credit points from the following options:

- CBK90246 Electives: 24cp
- SMJ08157 Business Accounting: 24cp
- SMJ09035 Language other than English: 24cp
- SMJ09036 Specialist Country Studies: 24cp
- SMJ08099 Technology: 24cp
- SMJ08198 Advertising Principles: 24cp
- SMJ08197 Marketing Principles: 24cp

**Total 24cp**

**CBK90285 Options (Law PG)**

Select 12 credit points from the following options:

- CBK90246 Electives: 12cp
- STM90111 Research project (Law PG): 12cp

**Total 12cp**

**CBK90286 Sub-major/Electives**

Select 24 credit points from the following options:

- CBK90246 Electives: 24cp
- SMJ08157 Business Accounting: 24cp
- SMJ09035 Language other than English: 24cp
- SMJ09036 Specialist Country Studies: 24cp
- SMJ08099 Technology: 24cp
- SMJ08198 Advertising Principles: 24cp
- SMJ08197 Marketing Principles: 24cp

**Total 24cp**

**CBK90287 Options (Law PG)**

Select 12 credit points from the following options:

- CBK90246 Electives: 12cp
- STM90111 Research project (Law PG): 12cp

**Total 12cp**
CBK90286 Design Expertise major/Electives (PG)
Select 24 credit points from the following options:
CBK90287 Design Expertise major choice 24cp
CBK90773 Design Expertise electives 24cp
Total 24cp

CBK90287 Design Expertise major choice
Select 24 credit points from the following options:
MAJ10017 Digitally Mediated Environments 24cp
MAJ10018 Animation Design 24cp
MAJ08956 Project Management 24cp
MAJ08967 Design Specialisation 24cp
Total 24cp

CBK90288 Elective/Design subjects (PG)
Select 32 credit points from the following options:
CBK90289 Design subjects (PG) 32cp
CBK90290 Electives 32cp
Total 32cp

CBK90289 Design subjects (PG)
Free choice of electives.

CBK90290 Electives
Free choice of electives.

CBK90291 Electives
Free choice of electives.

CBK90292 Design subjects (PG)
Free choice of electives.

CBK90293 Electives/Design subjects (PG)
Select 8 credit points from the following options:
CBK90291 Electives 8cp
CBK90292 Design subjects (PG) 8cp
Total 8cp

CBK90297 Project/Options (Facility Management)
Select 24 credit points from the following options:
STM00409 Facility Management subjects (PG) 24cp
STM00177 Graduate project 24cp
Total 24cp

CBK90299 Electives (Business PG)
Free choice of electives.

CBK90300 Electives (Law)
Free choice of electives.

CBK90302 Electives (Interactive Multimedia)
Students may choose subjects from any of the faculties within the University, as long as the subject area is related in some way to the underlying issues and themes of the Interactive Multimedia courses. Students should talk to the Program Leader and consult the UTS Handbook before enrolling in electives. When choosing electives students should consider their:
- skills and experience levels
- interests
- learning goals, and
- career objectives.
Further information is available at:

Completion requirements
Free choice of electives.

CBK90303 Electives (Interactive Multimedia)
Students may choose subjects from any of the faculties within the University, as long as the subject area is related in some way to the underlying issues and themes of the Interactive Multimedia courses. Students should talk to the Program Leader and consult the UTS Handbook before enrolling in electives. When choosing electives students should consider their:
- skills and experience levels
- interests
- learning goals, and
- career objectives.
Further information is available at:

Completion requirements
Free choice of electives.

CBK90304 Electives
Free choice of electives.

CBK90305 Electives
Free choice of electives.

CBK90306 Facility Management subjects
Select 48 credit points from the following options: 48cp
15321 Workplace Ecology 6cp
15322 Engineering Services and Systems 6cp
15323 Development Management 6cp
15324 Facility Obsolescence 6cp
15341 Sustainable Development 12cp
15342 Environmental Design 12cp
15343 Strategic Facility Planning 12cp
15344 Facility Performance 12cp
Total 48cp

CBK90307 Property subjects (PG)
Select 24 credit points from the following options:
12515 Strategic Asset Management 6cp
12535 Valuation Application 6cp
15241 Urban Economics and Finance 6cp
171200 Conservation and Heritage 6cp
17351 Property Market and Risk Analysis 6cp
17703 Property Taxation 6cp
17772 Commercial Retail Property Management 6cp
15321 Workplace Ecology 6cp
15322 Engineering Services and Systems 6cp
15313 Project Procurement and Risk Management 6cp
15311 Managing Complex Projects 6cp
15334 Facility Obsolescence 6cp
15312 Communication and Critical Thinking 6cp
15314 Project Implementation 6cp
15222 Urban Design 6cp
15145 Development Negotiation 6cp
15301 Planning Theory and Decision Making 6cp
15315 Project Management Principles 6cp
17774 Green Building Evaluation 6cp
Total 24cp

CBK90308 Property Development subjects
Select 12 credit points from the following options: 12cp
17701 Environment and Control 6cp
17519 Property Research Methods 6cp
17703 Property Taxation 6cp
12535 Valuation Application 6cp
17552 Property Asset Management 6cp
17553 Construction Cost Planning 6cp
Total 12cp
### CBK90309 Property options (PG)

Select 24 credit points from the following options: 24cp

- 12535 Valuation Application 6cp
- 12515 Strategic Asset Management 6cp
- 17120 Conservation and Heritage 6cp
- 15241 Urban Economics and Finance 6cp
- 17551 Property Market and Risk Analysis 6cp
- 17772 Commercial Retail Property Management 6cp
- 17703 Property Taxation 6cp
- 15222 Urban Design 6cp
- 15145 Development Negotiation 6cp
- 15315 Project Management Principles 6cp
- 17774 Green Building Evaluation 6cp
- 17554 Urban Simulation 6cp
- 17555 Complexity and Spatial Analysis 6cp

Total 24cp

### CBK90310 e-Learning choice

Select 12 credit points from the following options: 12cp

- 95563 Digital Media Development Process 6cp
- 95567 Digital Media in Social Context 6cp
- 95564 Digital Media Technologies 6cp
- 95565 Digital Graphics and the Still Image 6cp
- 95566 Digital Information and Interaction Design 6cp
- CBK90148 Education subjects (PG) 6cp
- 013951 Learning and Change 6cp
- 013952 Research Perspectives 6cp

Total 12cp

### CBK90311 Electives

Free choice of electives.

### CBK90312 Core subjects

Select 144 credit points from the following options: 144cp

- 028411 Science and Technology Study 1: The Human Body 6cp
- 024421 Children's Theatre and the Creative Arts 1: Overview of World Theatre, Production Roles, Script Writing 6cp
- 024424 Children’s Theatre and Creative Arts 4: Staging Performances 6cp
- 023200 HSIE Study 1: Social Issues and Social Action 6cp
- 023156 Professional Experience 6: Promoting Student Centred Learning 6cp
- 023157 Professional Experience 7: Reflection on Educational Practice 6cp
- 023158 Professional Experience 8: Analysing Current Issues in Australian Education 6cp
- 024213 English Education 3 6cp
- 028222 Society, Science, Technology and the Environment 6cp

Total 144cp

### CBK90313 Electives (Journalism)

Select 8 credit points from the following options: 8cp

- 50001 Online Documentary 8cp
- 50190 Professional Information Project 8cp
- 50251 Genocide Studies 8cp
- 58123 Society, Economy and Globalisation 8cp
- 58116 The Ecology of Public Communication 8cp
- 58110 Introduction to Journalism 8cp
- 58119 Text and Context 8cp
- 58326 Australian Aboriginal Politics and History 8cp
- 58227 Balancing World Views: Introduction to Aboriginal Cultures 8cp
- 58122 Introduction to Social Inquiry 8cp
- 58111 Reporting with Sound and Image 8cp
- 58112 Reporting and Editing for Print and Online Journalism 8cp
- 58118 Principles of Advertising 8cp
- 58129 Advertising Campaign Practice 8cp
- 58117 Principles of Public Relations 8cp
- 58128 Strategic Public Relations 8cp
- 58120 Creativity and Culture 8cp
- 58121 Fictional Forms 8cp
- 58124 Local Transformations 8cp
- 58125 Creative Information Design 8cp
- 58126 Information Discovery and Analysis 8cp
- 58127 Information Cultures 8cp
- 58222 Global Politics from Above and Below 8cp
- 58316 Sex, Race and Empire 8cp
- 58317 Transnational Media 8cp
- 58223 Social Bodies 8cp
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<td>Investigating Media, Reflective Practices</td>
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<td>Audiences, Users, Publics, Communities</td>
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CBK90316 Electives (Media Arts and Production)

Select 8 credit points from the following options: 8cp

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CBK90316 Electives (Public Communication)

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CBK90315 Electives (Social Inquiry)

Select 8 credit points from the following options: 8cp

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**CBK90317 Electives (Writing and Cultural Studies)**

Select 8 credit points from the following options: 8cp

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**CBK90319 Subject choice (Education)**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>01525</td>
<td>Professional Experience 2: Teaching and Learning in Context</td>
<td>6cp</td>
</tr>
<tr>
<td>015033</td>
<td>Programming for Community Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>015144</td>
<td>Education and Cultural Diversity</td>
<td>6cp</td>
</tr>
<tr>
<td>015189</td>
<td>Facilitating Learning</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 96cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

**CBK90320 Major choice**

Select 78 credit points from the following options: 78cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAJ09396</td>
<td>Aboriginal Studies and Language, Literacy and Numeracy</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ09397</td>
<td>Language, Literacy and Numeracy</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ09398</td>
<td>Vocational Education</td>
<td>78cp</td>
</tr>
<tr>
<td>MAJ08962</td>
<td>Human Resource Development</td>
<td>78cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 78cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

**CBK90321 Electives**

Select 18 credit points from the following options: 18cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31080</td>
<td>Digital Multimedia</td>
<td>6cp</td>
</tr>
<tr>
<td>31097</td>
<td>IT Operations Management</td>
<td>6cp</td>
</tr>
<tr>
<td>31335</td>
<td>Extreme Programming</td>
<td>6cp</td>
</tr>
<tr>
<td>31735</td>
<td>Information Systems and Organisation Development</td>
<td>6cp</td>
</tr>
<tr>
<td>31748</td>
<td>Programming on the Internet</td>
<td>6cp</td>
</tr>
<tr>
<td>31777</td>
<td>Human-Computer Interaction</td>
<td>6cp</td>
</tr>
<tr>
<td>31927</td>
<td>Application Development with .NET</td>
<td>6cp</td>
</tr>
<tr>
<td>31950</td>
<td>Networked Enterprise Design</td>
<td>6cp</td>
</tr>
<tr>
<td>31096</td>
<td>Managing Client / Vendor Relations</td>
<td>6cp</td>
</tr>
<tr>
<td>31338</td>
<td>Network Servers</td>
<td>6cp</td>
</tr>
<tr>
<td>31091</td>
<td>Mobile Computing Project</td>
<td>6cp</td>
</tr>
<tr>
<td>31100</td>
<td>Enterprise Development with .NET</td>
<td>6cp</td>
</tr>
<tr>
<td>31005</td>
<td>Data Mining Algorithms</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 18cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

**CBK90323 No specified major**

Select 30 credit points from the following options: 30cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>77701</td>
<td>International Economic Law (PG)</td>
<td>6cp</td>
</tr>
<tr>
<td>77704</td>
<td>European Union Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77715</td>
<td>Banking Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77716</td>
<td>International Trade Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77724</td>
<td>International Banking and Finance Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77734</td>
<td>Law and Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>77740</td>
<td>Research Paper</td>
<td>6cp</td>
</tr>
<tr>
<td>77745</td>
<td>Negotiation</td>
<td>6cp</td>
</tr>
<tr>
<td>77746</td>
<td>Advanced Mediation</td>
<td>6cp</td>
</tr>
<tr>
<td>77751</td>
<td>International Commercial Arbitration</td>
<td>6cp</td>
</tr>
<tr>
<td>77752</td>
<td>Commercial Arbitration (Domestic)</td>
<td>6cp</td>
</tr>
<tr>
<td>77760</td>
<td>Family Dispute Resolution</td>
<td>6cp</td>
</tr>
<tr>
<td>77761</td>
<td>Dispute Resolution in Commerce</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 18cp</strong></td>
<td></td>
</tr>
</tbody>
</table>
CBK90324 Two sub-majors/Sub-major + four electives
Select 48 credit points from the following options:

CBK90325 Electives
Free choice of electives.

CBK90326 Options
Select 6 credit points from the following options:

CBK Handbook 2013 Study package directory: Choice blocks

523
CBK90327 Major subjects choice (Law)
Select 12 credit points from the following options:

- Advanced Mediation (6cp)
- Current Issues in Taxation (6cp)
- Commercial Arbitration (Domestic) (6cp)
- Dispute Resolution (6cp)
- Dispute Resolution in Commerce (6cp)
- European Union Law (6cp)
- Goods and Services Tax (6cp)

Select one of the following:

- International Commercial Arbitration (6cp)
- International Commercial Dispute Resolution (6cp)

Total 12cp

CBK90329 Major choice
Select 24 credit points from the following options:

- Computer Control Engineering (24cp)
- Energy Planning and Policy (24cp)
- Local Government Engineering (24cp)
- Manufacturing Engineering and Management (24cp)
- Software Engineering (24cp)
- Structural Engineering (24cp)
- Telecommunications Engineering (24cp)
- Water Engineering (24cp)
- Advanced Mediation (6cp)
- Current Issues in Taxation (6cp)
- Commercial Arbitration (Domestic) (6cp)
- Dispute Resolution (6cp)
- European Union Law (6cp)
- Goods and Services Tax (6cp)

Total 24cp

CBK90330 Major choice
Select 48 credit points from the following options:

- Computer Control Engineering (48cp)
- Energy Planning and Policy (48cp)
- Local Government Engineering (48cp)
- Manufacturing Engineering and Management (48cp)
- Software Engineering (48cp)
- Structural Engineering (48cp)
- Telecommunications Engineering (48cp)
- Water Engineering (48cp)
- Advanced Mediation (6cp)
- Current Issues in Taxation (6cp)
- Commercial Arbitration (Domestic) (6cp)
- Dispute Resolution (6cp)
- European Union Law (6cp)
- Goods and Services Tax (6cp)
- Manufacturing Engineering and Management (48cp)
- Software Engineering (48cp)
- Structural Engineering (48cp)
- Telecommunications Engineering (48cp)
- Water Engineering (48cp)

Total 48cp
CBK90331 Subject choice (Group A)
Select 18 credit points from the following options: 18cp

- 49001 Judgment and Decision Making 6cp
- 49013 Managing Information Technology in Engineering 6cp
- 49016 Technology and Innovation Management 6cp
- 49306 Quality and Operations Management Systems 6cp

Total 18cp

CBK90332 Major choice
Select 30 credit points from the following options: 30cp

- MAJ09382 Commercial Law 6cp
- MAJ09381 International Law 6cp

Total 30cp

CBK90333 Electives
Select 12 credit points from the following options: 12cp

- 32106 Agile Method Engineering 6cp
- 32120 Introduction to e-Business Technology 6cp
- 32131 Data Mining and Visualisation 6cp
- 32133 e-Market Trading Technology 6cp
- 32501 Computer Graphics 6cp
- 32530 UNIX Systems Administration 6cp
- 32536 Advanced Software Modelling 6cp
- 32535 Database in Distributed Environments 6cp
- 32531 Global Information Systems 6cp
- 32520 UNIX Systems Programming 6cp
- 32547 UNIX Systems Administration 6cp
- 32543 3D Animation 6cp
- 32544 Advanced Image Synthesis Techniques 6cp
- 32549 Advanced Internet Programming 6cp
- 32525 Web Services Technologies and Applications 6cp
- 32531 Global Information Systems 6cp
- 32533 Database in Distributed Environments 6cp
- 32536 Advanced Software Modelling 6cp
- 32541 Project Management 6cp
- 32549 Advanced Internet Programming 6cp
- 22797 Business Intelligence 1: Advanced Analysis 6cp
- 24331 Marketing Analytics and Decisions 6cp
- 24726 Economics and Marketing in the New Economy 6cp
- 25705 Financial Modelling and Forecasting 6cp
- 25741 Capital Markets 6cp
- 25834 Portfolio Analysis 6cp
- 35151 Introduction to Statistics 6cp
- 35252 Mathematical Statistics 6cp
- 35353 Regression Analysis 6cp
- 35457 Multivariate Statistics 6cp
- 49003 Economic Evaluation 6cp
- 49016 Technology and Innovation Management 6cp
- 95567 Digital Media in Social Context 6cp
- 95563 Digital Media Development Process 6cp
- 95564 Digital Media Technologies 6cp
- 95565 Digital Graphics and the Still Image 6cp
- 95566 Digital Information and Interaction Design 6cp
- 95568 Digital Sound and the Moving Image 6cp
- 32147 Introduction to IT Management 6cp
- 32146 Data Visualisation and Visual Analytics 6cp
- 32405 User-Centred Design Methods 6cp
- 32130 Fundamentals of Data Analytics 6cp
- 32148 Enterprise Computing 6cp
- 32998 .NET Application Development 6cp
- 32013 .NET Enterprise Development 6cp

Total 12cp

CBK90334 Specialisation choice
Select 24 credit points from the following options: 24cp

- STM09046 Human-centred Design 6cp
- STM09047 Data Mining 6cp
- STM09048 Software Engineering 6cp
- STM09049 IT Management 6cp
- STM09047 e-Business Technology 6cp
- STM09042 Computer Graphics and Gaming 6cp

Total 24cp

CBK90335 Electives
Select 18 credit points from the following options: 18cp

- 32106 Agile Method Engineering 6cp
- 32120 Introduction to e-Business Technology 6cp
- 32131 Data Mining and Visualisation 6cp
- 32133 e-Market Trading Technology 6cp
- 32501 Computer Graphics 6cp
- 32530 UNIX Systems Administration 6cp
- 32536 Advanced Software Modelling 6cp
- 32535 Database in Distributed Environments 6cp
- 32531 Global Information Systems 6cp
- 32520 UNIX Systems Programming 6cp
- 32547 UNIX Systems Administration 6cp
- 32543 3D Animation 6cp
- 32544 Advanced Image Synthesis Techniques 6cp
- 32549 Advanced Internet Programming 6cp
- 22797 Business Intelligence 1: Advanced Analysis 6cp
- 24331 Marketing Analytics and Decisions 6cp
- 24726 Economics and Marketing in the New Economy 6cp
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- 25741 Capital Markets 6cp
- 25834 Portfolio Analysis 6cp
- 35151 Introduction to Statistics 6cp
- 35252 Mathematical Statistics 6cp
- 35353 Regression Analysis 6cp
- 35457 Multivariate Statistics 6cp
- 49003 Economic Evaluation 6cp
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- 95566 Digital Information and Interaction Design 6cp
- 95568 Digital Sound and the Moving Image 6cp
- 32147 Introduction to IT Management 6cp
- 32146 Data Visualisation and Visual Analytics 6cp
- 32405 User-Centred Design Methods 6cp
- 32130 Fundamentals of Data Analytics 6cp
- 32148 Enterprise Computing 6cp
- 32998 .NET Application Development 6cp
- 32013 .NET Enterprise Development 6cp

Total 18cp

CBK90336 Specialisation choice
Select 30 credit points from the following options: 30cp

- STM09047 Human-centred Design 6cp
- STM09048 Software Engineering 6cp
- STM09049 IT Management 6cp
- STM09047 e-Business Technology 6cp
- STM09042 Computer Graphics and Gaming 6cp

Total 30cp

CBK90338 Electives
Free choice of electives.
CBK90339 Electives (Adult Education)

Select 48 credit points from the following options: 48cp

013081 Aboriginal Studies Project 6cp
013082 Aboriginal Social and Political History 6cp
013097 Human Resource Development in Organisations 6cp
013099 Individualised Project 1 6cp
013102 Introduction to Language 6cp
013103 Issues in Aboriginal Education 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013115 Professional Practice and Changing Work 6cp
013118 Teaching and Learning Literacy 6cp
013124 Work and People 6cp
013148 Initiatives in Aboriginal Education 6cp
013149 The Language Literacy and Numeracy Learner 6cp
013151 Project Management 6cp
013967 e-Learning Design 6cp
013968 Designing and Developing Simulations and Games 6cp
013971 Teaching and Learning Numeracy 6cp
013972 Organisational Learning 6cp
013975 Organisational Learning and Change: Local and Global 6cp
013981 Teaching Aboriginal Studies 6cp
013991 Team Communication in the Workplace 6cp

Total 48cp

CBK90340 Subject choice (Adult Education)

Select 48 credit points from the following options: 48cp

013033 Programming for Community Learning 6cp
013189 Facilitating Learning 6cp
011404 Exchange Elective 1 (Education) 6cp
011414 Exchange Elective 2 (Education) 6cp
011424 Exchange Elective 3 (Education) 6cp
011434 Exchange Elective 4 (Education) 6cp

Total 48cp

CBK90341 Electives (Adult Education)

Select 6 credit points from the following options: 6cp

013081 Aboriginal Studies Project 6cp
013082 Aboriginal Social and Political History 6cp
013097 Human Resource Development in Organisations 6cp
013099 Individualised Project 1 6cp
013102 Introduction to Language 6cp
013103 Issues in Aboriginal Education 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013115 Professional Practice and Changing Work 6cp
013118 Teaching and Learning Literacy 6cp
013124 Work and People 6cp
013148 Initiatives in Aboriginal Education 6cp
013149 The Language Literacy and Numeracy Learner 6cp
013151 Project Management 6cp
013967 e-Learning Design 6cp
013968 Designing and Developing Simulations and Games 6cp
013971 Teaching and Learning Numeracy 6cp
013972 Organisational Learning 6cp
013975 Organisational Learning and Change: Local and Global 6cp
013981 Teaching Aboriginal Studies 6cp
013991 Team Communication in the Workplace 6cp

Total 6cp

CBK90342 Community choice

Select 24 credit points from the following options: 24cp

013081 Aboriginal Studies Project 6cp
013082 Aboriginal Social and Political History 6cp
013097 Human Resource Development in Organisations 6cp
013099 Individualised Project 1 6cp
013103 Issues in Aboriginal Education 6cp
013115 Professional Practice and Changing Work 6cp
013124 Work and People 6cp
013148 Initiatives in Aboriginal Education 6cp
013151 Project Management 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
013958 Language Teaching Methodology 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013963 Cultural Diversity at Work 6cp
013966 e-Learning Experiences 6cp
013967 e-Learning Design 6cp
013972 Organisational Learning 6cp
013976 Strategic Human Resource Development 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013981 Teaching Aboriginal Studies 6cp

Total 24cp

CBK90345 Electives

Select 8 credit points from the following options: 8cp

57026 Strategic Communication and Negotiation 8cp
57182 Rethinking Media 8cp
57131 Inventive Media Advertising 8cp
57132 Media Relations 8cp
57995 Learning in Organisations 8cp

Total 8cp

CBK90346 Master’s option

Select 16 credit points from the following options: 16cp

STM90777 Master’s option with project 16cp
STM90484 Master’s option without project 16cp

Total 16cp

CBK90347 Master’s option with project

Free choice of electives.

CBK90348 Electives

Select 8 credit points from the following options: 8cp

57026 Strategic Communication and Negotiation 8cp
57131 Inventive Media Advertising 8cp
57132 Media Relations 8cp
57995 Learning in Organisations 8cp

Total 8cp

CBK90350 Electives

Select 24 credit points from the following options: 24cp

57989 Mise-en-Scene 8cp
57046 Professional Editing 8cp
57053 Book Publishing and Marketing 8cp
57101 Advanced Screenwriting 8cp
57122 Short Fiction Workshop 8cp
57124 Novel Writing 8cp
57133 Writing Poetry 8cp
57031 Non-Fiction Writing 8cp
57041 Narrative Writing 8cp
57014 Feature Writing 8cp
57142 Writing for the Screen 8cp
57144 Popular Fiction 8cp
57145 Freelance Writing 8cp

Total 24cp

CBK90351 Writing stream choice

Select 16 credit points from the following options: 16cp

STM90360 Writing stream 16cp

Total 16cp

CBK90352 Electives

Free choice of electives.
CBK90354 Major core subject choice
Select 6 credit points from the following options:  
49261 Biomedical Instrumentation 6cp  
49274 Advanced Robotics 6cp  
49275 Neural Networks and Fuzzy Logic 6cp  
Total 6cp

CBK90355 Major core subject choice
Select 18 credit points from the following options:  
49021 Evaluation of Infrastructure Investments 6cp  
49022 Energy Resources and Technology 6cp  
49024 Energy Modelling 6cp  
49025 Methods for Energy Analysis 6cp  
49026 Electricity Sector Planning and Restructuring 6cp  
49027 Energy Demand Analysis and Forecasting 6cp  
49028 Policy and Planning of Energy Conservation 6cp  
49029 Environmental Policy for Energy Systems 6cp  
49706 Regulatory Economics 6cp  
49923 Energy and Environmental Economics 6cp  
Total 18cp

CBK90356 Major core subject choice
Select 6 credit points from the following options:  
49202 Communication Protocols 6cp  
49238 Telecommunication Networks Management 6cp  
49048 Wireless Networking Technologies 6cp  
49201 Integrated Services Networks 6cp  
49215 Telecommunications Industry Management 6cp  
49249 Telecommunications Engineering Review 6cp  
42902 Interior Routing and High Availability 6cp  
42903 Multi Protocol Label Switching 6cp  
Total 6cp

CBK90357 Major subject choice
Select 6 credit points from the following options:  
49202 Communication Protocols 6cp  
49238 Telecommunication Networks Management 6cp  
49048 Wireless Networking Technologies 6cp  
49201 Integrated Services Networks 6cp  
49215 Telecommunications Industry Management 6cp  
49249 Telecommunications Engineering Review 6cp  
42902 Interior Routing and High Availability 6cp  
42903 Multi Protocol Label Switching 6cp  
Total 6cp

CBK90358 Major subject choice
Select 12 credit points from the following options:  
49205 Transmission Systems 6cp  
49215 Telecommunications Industry Management 6cp  
49048 Wireless Networking Technologies 6cp  
49099 GSM, GPRS and EDGE Technologies 6cp  
49201 Integrated Services Networks 6cp  
49238 Telecommunication Networks Management 6cp  
49249 Telecommunications Engineering Review 6cp  
49223 Satellite Communication Systems 6cp  
Total 12cp

CBK90359 Core subject choice (Group A)
Select 18 credit points from the following options:  
49049 Air and Noise Pollution 6cp  
49109 Engineered Natural Water Treatment Systems 6cp  
49121 Environmental Assessment and Planning 6cp  
49122 Ecology and Sustainability 6cp  
49123 Waste and Pollution Management 6cp  
49125 Environmental Risk Assessment 6cp  
49126 Environmental Management of Land 6cp  
49127 On-site Water and Wastewater Treatment 6cp  
49116 Contaminated Site and Waste Remediation 6cp  
49257 Geographic Information Systems 6cp  
Total 18cp

CBK90360 Electives choice (Group B)
Select 6 credit points from the following options:  
49001 Judgment and Decision Making 6cp  
49002 Managing Projects 6cp  
49003 Economic Evaluation 6cp  
49108 Local Government Powers and Practice 6cp  
Total 6cp

CBK90361 Software option
Select 12 credit points from the following options:  
48024 Applications Programming 6cp  
48440 Software Engineering Practice 6cp  
48433 Software Architecture 6cp  
Total 12cp

CBK90362 Digital Electronics option
Select 12 credit points from the following options:  
48520 Electronics and Circuits 6cp  
48451 Advanced Digital Systems 6cp  
48570 Data Acquisition and Distribution 6cp  
Total 12cp

CBK90363 Embedded Systems option
Select 18 credit points from the following options:  
48430 Embedded C 6cp  
48434 Embedded Software 6cp  
48450 Real-time Operating Systems 6cp  
Total 18cp

CBK90364 Signals option
Select 18 credit points from the following options:  
48770 Continuous Communications 6cp  
48771 Discrete Communications 6cp  
48780 Mobile Communications 6cp  
Total 18cp

CBK90365 Networks option
Select 18 credit points from the following options:  
48740 Communications Networks 6cp  
48730 Authentication and System Security 6cp  
48750 Network Planning and Management 6cp  
Total 18cp

CBK90366 ICT choice
Select 18 credit points from the following options:  
48024 Applications Programming 6cp  
48440 Software Engineering Practice 6cp  
48433 Software Architecture 6cp  
48520 Electronics and Circuits 6cp  
48451 Advanced Digital Systems 6cp  
48570 Data Acquisition and Distribution 6cp  
48430 Embedded C 6cp  
48434 Embedded Software 6cp  
48450 Real-time Operating Systems 6cp  
48770 Continuous Communications 6cp  
48771 Discrete Communications 6cp  
48730 Authentication and System Security 6cp  
48750 Network Planning and Management 6cp  
Total 18cp
CBK90367 ICT choice
Select 12 credit points from the following options: 12cp
48024 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48770 Continuous Communications 6cp
48771 Discrete Communications 6cp
48780 Mobile Communications 6cp
48740 Communications Networks 6cp
48730 Authentication and System Security 6cp
48750 Network Planning and Management 6cp
Total 12cp

CBK90368 ICT choice
Select 6 credit points from the following options: 6cp
48024 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48770 Continuous Communications 6cp
48771 Discrete Communications 6cp
48780 Mobile Communications 6cp
48740 Communications Networks 6cp
48730 Authentication and System Security 6cp
48750 Network Planning and Management 6cp
Total 6cp

CBK90369 Family Law subject choice
Select 8 credit points from the following options: 8cp
78128 Child Law in Australia 8cp
78130 Complex Parenting Disputes 8cp
78132 Complex Financial and Property Disputes (in Family Law) 8cp
78134 Current Issues in Family Law 8cp
78140 International and Comparative Family Law 8cp
78142 New Families, New Technologies 8cp
78139 Family Dispute Resolution 8cp
Total 8cp

CBK90370 Dispute Resolution subject choice
Select 8 credit points from the following options: 8cp
78127 Advanced Mediation 8cp
78137 Facilitation 8cp
78139 Family Dispute Resolution 8cp
78143 Psychology and Dispute Resolution (in Family Law) 8cp
78100 Postgraduate Legal Research 8cp
78171 Crisis Negotiation 8cp
78175 Negotiation 8cp
78174 Mediation Practice 8cp
78124 Dispute Resolution in Commerce 8cp
77800 International Commercial Dispute Resolution 8cp
Total 8cp

CBK90371 Media Production
Select 8 credit points from the following options: 8cp
57173 Advanced Post Production 8cp
57175 Creative Producing 8cp
57176 Directing 8cp
57168 Sound and Interaction 8cp
57166 Documentary Production 8cp
57178 Digital and Multiplatform Storytelling 8cp
57179 Project Development and Creative Practice 8cp
Total 8cp

CBK90372 Media Arts choice
Select 8 credit points from the following options: 8cp
57175 Creative Producing 8cp
57989 Muse-on-Screen 8cp
57061 Issues in Documentary 8cp
57176 Directing 8cp
57173 Advanced Post Production 8cp
57168 Sound and Interaction 8cp
57166 Documentary Production 8cp
57178 Digital and Multiplatform Storytelling 8cp
57179 Project Development and Creative Practice 8cp
Total 8cp

CBK90373 Sub-major choice
Select 24 credit points from the following options: 24cp
SMJ10043 Business Information Systems Management 24cp
SMJ10044 Enterprise Systems Development 24cp
SMJ10045 Networking and Applications 24cp
SMJ10046 Computing and Data Analysis 24cp
Total 24cp

CBK90376 Sub-major/Four electives
Select 24 credit points from the following options: 24cp
CBK90190 Electives 24cp
SMJ08203 Event Management 24cp
Total 24cp

CBK90377 Property options (PG)
Select 12 credit points from the following options: 12cp
12515 Strategic Asset Management 6cp
15241 Urban Economics and Finance 6cp
17551 Property Market and Risk Analysis 6cp
17772 Commercial Retail Property Management 6cp
17703 Property Taxation 6cp
15315 Project Management Principles 6cp
17774 Green Building Evaluation 6cp
17553 Construction Cost Planning 6cp
171200 Conservation and Heritage 6cp
15321 Workplace Ecology 6cp
15322 Engineering Services and Systems 6cp
15313 Project Procurement and Risk Management 6cp
15324 Facility Obsolescence 6cp
15312 Communication and Critical Thinking 6cp
15222 Urban Design 6cp
15145 Development Negotiation 6cp
15301 Planning Theory and Decision Making 6cp
17518 Advanced Property Development 6cp
17704 Property Development Finance 6cp
17736 Project Time, Cost and Quality Management 6cp
17775 Land Acquisition and Management 6cp
12535 Valuation Application 6cp
Total 12cp

CBK90378 Sub-major choice (SMD)
Select 24 credit points from the following options: 24cp
CBK90379 No specified sub-major (SMD) 24cp
SMJ10037 Composition 24cp
SMJ10038 Interaction Design 24cp
Total 24cp

CBK90379 No specified sub-major (SMD)
Select 24 credit points from the following options: 24cp
50839 Sound for Time-based Media 6cp
50842 Electro-acoustic Composition 6cp
50843 Live Sound 6cp
50844 Musical Instrument Design 6cp
Total 24cp

CBK90380 Electives (SMD)
Free choice of electives.
CBK90381 Elective choice (Finance)
Select 18 credit points from the following options: 18cp
- 25762 Synthetic Financial Products 6cp
- 25763 Corporate Treasury Management 6cp
- 25796 Personal Wealth Management 6cp
- 25751 Financial Institution Management 6cp
- 25752 Financial Institution Lending 6cp
- 77947 Companies and Securities Law 6cp
- 25732 Venture Capital and Private Equity: Theory and Practice 6cp
- 25728 Bond Portfolio Management 6cp
- 25729 Applied Portfolio Management 6cp
- 25812 Fundraising in International Markets 3cp
- 25824 Project Financing 3cp
- 25674 Venture Capital Finance 3cp
- 25807 Mergers and Acquisitions 3cp
- 25809 Technical Analysis 3cp
- 25818 Real Estate Finance and Investment 3cp
- 25797 Real Estate Investment Trusts 3cp
- 25798 Ethics and Professional Standards in Finance 3cp
Total 18cp

CBK90382 Electives choice
Select 18 credit points from the following options: 18cp
- 21722 Leadership, Coaching and Mentoring 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 21012 Governance and Sustainability 6cp
- 21008 Management Consulting 6cp
- 77942 Legal Aspects of Contracts Administration 6cp
- CBK90387 Electives (Law/Business) 6cp
Total 18cp

CBK90383 Options
Select 42 credit points from the following options: 42cp
- 76001 Comparative Law 6cp
- 76002 Sports Law 6cp
- 76003 Asian Law and Legal Systems 6cp
- 76005 Islamic Law 6cp
- 76006 Public International Law 6cp
- 76007 International Human Rights Law 6cp
- 76008 Jurisprudence 6cp
- 76009 Introduction to Chinese Business Law 6cp
- 76010 Disability and the Law 6cp
- 76012 Criminology 6cp
- 76013 World Trade Law 6cp
- 76015 Labour Law 6cp
- 76016 Advanced Revenue Law 6cp
- 76019 Broadcasting and Telecommunications Regulation 6cp
- 76020 Entertainment Law 6cp
- 76021 Advanced Remedies 6cp
- 76022 Insurance Law 6cp
- 76023 Debtor Trade Practices and Product Liability 6cp
- 76024 Environmental Law 6cp
- 76025 International Organisations 6cp
- 76027 Competition Law 6cp
- 76030 Genetics and the Law 6cp
- 76033 Animal Law and Policy in Australia 6cp
- 76034 Law of Slavery and Human Trafficking 6cp
- 76036 International Trade Law and the Environment 6cp
- 76037 Advanced Criminal Law 6cp
- 76038 Law and Mental Health 6cp
- 76039 Jessup International Moot 6cp
- 76040 Research Thesis 6cp
- 76041 Climate Law and Carbon Markets 6cp
- 76042 Electronic Communications Content Regulation 6cp
- 76045 Medicine and Law 6cp
- 76047 Advanced Contracts 6cp
- 76048 Citizenship and Immigration Law 6cp
- 76052 Dispute Resolution Advocacy 6cp
- 76053 Industrial Law 6cp
- 76063 Media Law 6cp
- 76066 Children and the Law 6cp
- 76068 Indigenous Peoples and the Law 6cp
- 76069 Community Justice Studies 6cp
- 76070 Biomedical Law and Bioethics 6cp
- 76074 Australian Civil Liberties Law 6cp
- 76075 Contemporary Legal Studies 1 6cp
- 76076 Contemporary Legal Studies 2 6cp
- 76080 Finance Law 6cp
- 76081 Gender, Law and Sexuality 6cp
- 76082 International Regulation of Financial Institutions 6cp
- 76112 Conflict of Laws 6cp
- 76115 Insolvency 6cp
- 76212 Revenue Law 6cp
- 76516 Family Law and Vice 6cp
- 76517 Succession 6cp
- 76521 Intellectual Property and Traditional Knowledge 6cp
- 76703 Indigenous Peoples, the Environment and Property 6cp
- 76801 Exchange Subject 1 6cp
- 76802 Exchange Subject 2 6cp
- 76803 Exchange Subject 3 6cp
- 76804 Exchange Subject 4 6cp
- 76901 Vis Arbitral Moot 6cp
- 76902 Law and Literature 6cp
- 76903 International Commercial Transactions 6cp
- 77704 European Union Law 6cp
- 77715 Banking Law 6cp
- 77740 Research Paper 6cp
- 77794 International Environmental Law 6cp
- 77901 Securities Markets Law 6cp
- 78008 Law of the Sea 6cp
- 78013 Refugee Law and Practice 6cp
- 78021 Contemporary Issues in Constitutional Law 6cp
- 78025 Intellectual Property: Law and Policy 6cp
- 78030 Criminal Sentencing Law 6cp
- 78039 Wickedness and Vice 6cp
- 78040 The Law and Education 6cp
- 78042 Environmental Planning and Development Law 6cp
- 78043 Building and Construction Law 6cp
- 78056 Intellectual Property Commercialisation Overview 6cp
Total 42cp

CBK90384 Electives (Operations and Supply Chain Management)
Select 18 credit points from the following options: 18cp
- 21745 Service Operations Management 6cp
- 21811 Global Strategic Management 6cp
- 21832 Managing for Sustainability 6cp
- 21827 Change Management 6cp
- 22782 Business Process Integration with ERP 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 77942 Legal Aspects of Contracts Administration 6cp
- 15315 Project Management Principles 6cp
- 35340 Quantitative Management Practice 6cp
- 21779 Management Skills 6cp
- 21877 Strategic Procurement 6cp
Total 18cp

CBK90385 Electives (Operations and Supply Chain Management)
Select 42 credit points from the following options: 42cp
- 21745 Service Operations Management 6cp
- 21811 Global Strategic Management 6cp
- 21832 Managing for Sustainability 6cp
- 21827 Change Management 6cp
- 22782 Business Process Integration with ERP 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 77942 Legal Aspects of Contracts Administration 6cp
- 35340 Quantitative Management Practice 6cp
- CBK90387 Electives (Law/Business) 6cp
- 21779 Management Skills 6cp
- 21877 Strategic Procurement 6cp
Total 42cp
CBK90386 Electives (HRM)
Select 18 credit points from the following options: 18cp
- 77942 Legal Aspects of Contracts Administration 6cp
- 21741 Managing Operations 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 21856 Career and Portfolio Development 6cp
- 21811 Global Strategic Management 6cp
- 21832 Managing for Sustainability 6cp

CBK90387 Electives (Law/Business)
The electives chosen should comprise postgraduate subjects only.

**Completion requirements**
Free choice of electives.

CBK90388 Electives
Select 12 credit points from the following options: 12cp
- 92296 Epidemiology and Population Health 6cp
- 92297 Health Systems and Change 6cp
- 92606 Issues in Australian Health Services 6cp
- 92887 Organisational Management in Health Care 6cp
- 92050 Policy, Power and Politics in Health Care 6cp
- 92051 Health Services Management and Legal Issues 6cp

CBK90390 Options
Free choice of electives.

CBK90391 Options
Select 48 credit points from the following options: 48cp
- 92023 Health Services Resource Management 6cp
- 92947 Project Part B 6cp
- 92932 Management for Clinicians 6cp
- 92947 Project Part B 6cp
- 92023 Health Services Resource Management 6cp

CBK90392 Electives Nursing (UG)
Free choice of electives.

CBK90394 Electives Nursing (UG)
Free choice of electives.

CBK90396 Electives
Select 12 credit points from the following options: 12cp
- 21720 Human Resource Management 6cp
- 92023 Health Services Resource Management 6cp
- 26703 Introductory Health Economics 6cp
- 92932 Management for Clinicians 6cp
- 92947 Project Part B 6cp
- 21702 Industrial Relations 6cp
- 24734 Marketing Management 6cp
- 21760 Performance and Talent Management 6cp
- 21766 Managing Community Organisations 6cp
- 92887 Organisational Management in Health Care 6cp
- 78104 Genetics and the Law 8cp
- 92932 Management for Clinicians 6cp
- 92947 Project Part B 6cp

CBK90397 Electives
Select 12 credit points from the following options: 12cp
- 21720 Industrial Relations 6cp
- 21717 International Management 6cp
- 21760 Performance and Talent Management 6cp
- 21766 Managing Community Organisations 6cp
- 24734 Marketing Management 6cp
- 92612 Research in Health 6cp
- 92632 Management for Clinicians 6cp
- 92947 Project Part B 6cp
- 21766 Managing Community Organisations 6cp
- 24734 Marketing Management 6cp
- 92612 Research in Health 6cp

CBK90398 Electives
Select 12 credit points from the following options: 12cp
- 21702 Industrial Relations 6cp
- 21717 International Management 6cp
- 21760 Performance and Talent Management 6cp
- 21766 Managing Community Organisations 6cp
- 24734 Marketing Management 6cp
- 92612 Research in Health 6cp
- 92932 Management for Clinicians 6cp
- 92947 Project Part B 6cp
- 92023 Health Services Resource Management 6cp

CBK90399 Law options
Free choice of electives.

CBK90400 Options (Law)
Select 24 credit points from the following options: 24cp
- CBK90411 Options A 24cp
- STM90560 Non-Common Law stream 24cp

CBK90401 Design Practice subjects (PG)
Select 24 credit points from the following options: 24cp
- CBK90403 Visual Communications options 24cp
- CBK90404 Interior Design options 24cp
- CBK90405 Industrial Design options 24cp
- CBK90406 Fashion and Textiles options 24cp

CBK90402 Design Studies subjects (PG)
Select 24 credit points from the following options: 24cp
- 85500 Design Futures: Creative Technologies 6cp
- 85504 Design Futures: Sustainable Lifestyles 6cp
- 85505 Design Interventions: Making Theories 6cp
- 85506 Design Differences: Intercultural Asia 6cp
- 85509 Design Differences: Community Identities 6cp
- 85601 Design Interventions: Business Innovation 6cp
- 85602 Interdisciplinary Design Lab: Undergraduate 6cp
- 85603 Interdisciplinary Design Experience: Undergraduate 6cp
- 85604 Reflective Practice 6cp
- 85701 Research Based Designing 6cp

CBK90403 Visual Communications options
Select 24 credit points from the following options: 24cp
- 87447 VC Technology: Motion Graphics 6cp
- 87443 VC Project: Typography in Context 6cp
- 87445 VC Project: Visualising Experience 6cp
- 87441 VC Studies: Contexts of Visual Communication 6cp
- 87335 VC Project: Sequence and Narrative 6cp
- 87444 VC Project: Typography in Context 6cp
- 87447 VC Technology: Motion Graphics 6cp

CBK90404 Interior Design options
Select 24 credit points from the following options: 24cp
- 85701 Research Based Designing 6cp
- 85509 Design Differences: Community Identities 6cp
- 85604 Reflective Practice 6cp
- 85701 Research Based Designing 6cp
CBK90405 Industrial Design options
Select 24 credit points from the following options: 24cp
84120 Structure, Form and Material in Industrial Design 6cp
84121 Computer-aided Industrial Design 6cp
84123 Material Manipulation 6cp
84124 Sustainability and Design 6cp
84122 Ergonomics and Industrial Design 6cp
Total 24cp

CBK90406 Fashion and Textiles options
Select 24 credit points from the following options: 24cp
83343 Studio: Bespoke Fashion 6cp
83341 Fashion, Gender and Identity 6cp
83344 Fashion Communication: Drawing and Digital Media 6cp
Total 24cp

CBK90407 Electives
Select 24 credit points from the following options: 24cp
SMJ08203 Event Management 24cp
Total 24cp

CBK90408 Sub-major/Four electives
Select 24 credit points from the following options: 24cp
CBK90409 Electives 24cp
SMJ08203 Event Management 24cp
Total 24cp

CBK90409 Electives
Select 24 credit points from the following options: 24cp
CBK90766 Electives (Tourism) 12cp
CBK90767 Electives 12cp
Total 24cp

CBK90410 Electives
Select 24 credit points from the following options: 24cp
CBK90190 Electives 24cp
SMJ08203 Event Management 24cp
Total 24cp

CBK90411 Options A
Select 24 credit points from the following options: 24cp
78110 Banking and Finance Law 8cp
78112 Securities Regulation 8cp
78114 Financial Analysis for the Transactional Lawyer 8cp
78116 International Regulation of Financial Institutions 8cp
78102 LLM Project by Research 8cp
78103 Common Law Legal Traditions 8cp
78171 Crisis Negotiation 8cp
78100 Postgraduate Legal Research 8cp
78118 Business and Law in China 8cp
78161 Global Governance and Social Justice 8cp
78140 International and Comparative Family Law 8cp
78183 Global Aspects of Intellectual Property Law 8cp
78189 Intellectual Property Commercialisation 8cp
78185 Intellectual Property: Law and Policy 8cp
78187 Intellectual Property and Traditional Knowledge 8cp
78196 Insurance Law 8cp
78104 Genetics and the Law 8cp
78106 Climate Law and Carbon Markets 8cp
78108 Globalisation and International Economic Law 8cp
78202 International Development Law 8cp
78198 Corporate Finance Transactions 1 8cp
78200 Corporate Finance Transactions 2 8cp
78190 Patent Law 8cp
78191 Patent Systems 8cp
78192 Trade Marks Law 8cp
78193 Trade Marks Practice 8cp
78194 Designs Law and Practice 8cp
78195 Copyright Law 8cp
78207 International Organisations 8cp
78208 Taxation of Commercial Enterprises 8cp
78211 Law and Literature 8cp
78203 Communications and Intellectual Property Law Overview 8cp
78213 Communications and Technology: A Primer 8cp
78219 Animal Law and Policy in Australia 8cp
78223 Law of Slavery and Human Trafficking 8cp
78217 Competition Law in a Global Context 8cp
78228 Financial Services Law and Compliance in Australia 8cp
78226 Environmental and Sustainable Development Law of China 8cp
78224 International Trade Law and the Environment 8cp
78221 Commercial Equity 8cp
78215 Finance Law 8cp
78204 Legal Perspectives on the Internet 8cp
78231 Commercial Trade and Transport Law 8cp
78232 Mining Law and Regulation 8cp
78233 International Commercial Arbitration 8cp
Total 24cp

CBK90412 Options B
Select 24 credit points from the following options: 24cp
78110 Banking and Finance Law 8cp
78112 Securities Regulation 8cp
78114 Financial Analysis for the Transactional Lawyer 8cp
78116 International Regulation of Financial Institutions 8cp
78102 LLM Project by Research 8cp
78103 Common Law Legal Traditions 8cp
78171 Crisis Negotiation 8cp
78172 Dispute Resolution in Civil Practice 8cp
78174 Mediation Practice 8cp
78175 Negotiation 8cp
78176 Workplace Dispute Resolution 8cp
78177 Converging Media Industries: Regulatory Challenges 8cp
78179 Telecommunications Law and Regulations 8cp
78118 Business and Law in China 8cp
78161 Global Governance and Social Justice 8cp
78140 International and Comparative Family Law 8cp
78183 Global Aspects of Intellectual Property Law 8cp
78189 Intellectual Property Commercialisation 8cp
78185 Intellectual Property: Law and Policy 8cp
78187 Intellectual Property and Traditional Knowledge 8cp
78196 Insurance Law 8cp
78104 Genetics and the Law 8cp
78106 Climate Law and Carbon Markets 8cp
78108 Globalisation and International Economic Law 8cp
78202 International Development Law 8cp
78198 Corporate Finance Transactions 1 8cp
78200 Corporate Finance Transactions 2 8cp
78190 Patent Law 8cp
78191 Patent Systems 8cp
78192 Trade Marks Law 8cp
78193 Trade Marks Practice 8cp
78194 Designs Law and Practice 8cp
78195 Copyright Law 8cp
78207 International Organisations 8cp
78208 Taxation of Commercial Enterprises 8cp
78211 Law and Literature 8cp
78203 Communications and Intellectual Property Law Overview 8cp
78213 Communications and Technology: A Primer 8cp
78219 Animal Law and Policy in Australia 8cp
78223 Law of Slavery and Human Trafficking 8cp
78217 Competition Law in a Global Context 8cp
78228 Financial Services Law and Compliance in Australia 8cp
78226 Environmental and Sustainable Development Law of China 8cp
78224 International Trade Law and the Environment 8cp
78221 Commercial Equity 8cp
78215 Finance Law 8cp
78204 Legal Perspectives on the Internet 8cp
78231 Commercial Trade and Transport Law 8cp
78232 Mining Law and Regulation 8cp
78233 International Commercial Arbitration 8cp
Total 24cp
CBK90413 Two sub-majors/Electives
Select 48 credit points from the following options: 48cp
SMJ02064 Business Information Systems Management 24cp
SMJ02065 Data Analytics 24cp
SMJ03036 Enterprise Systems Development 24cp
SMJ03037 Internetworking and Applications 24cp
SMJ08157 Business Accounting 24cp
SMJ09040 Introductory Economics 24cp
SMJ08159 Employment Relations 24cp
SMJ08160 International Management 24cp
SMJ01010 Electronics and Computer Interfacing 24cp
SMJ01012 Physics 24cp
SMJ01032 Statistical Modelling 24cp
SMJ02057 Scientific Computing 24cp
SMJ09034 International Studies 24cp
SMJ09035 Language other than English 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08188 Accounting for Small Business 24cp
SMJ08198 Advertising Principles 24cp
SMJ08197 Marketing Principles 24cp
SMJ08196 Innovation 24cp
CBK90783 Electives 24cp
CBK90784 Electives 24cp
SMJ01026 Quantitative Management 24cp
Total 48cp

CBK90414 Options (Language, Literacy and Numeracy major)
Select 18 credit points from the following options: 18cp
013975 Designing and Developing Simulations and Games 6cp
013982 Aboriginal Social and Political History 6cp
013124 Work and People 6cp
013963 Cultural Diversity at Work 6cp
013966 e-Learning Experiences 6cp
013967 e-Learning Design 6cp
013099 Individualised Project 1 6cp
01388 Educational Management 6cp
013976 Strategic Human Resource Development 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013151 Project Management 6cp
013907 Human Resource Development in Organisations 6cp
013972 Organisational Learning 6cp
010140 Exchange Elective 1 (Education) 6cp
010141 Exchange Elective 2 (Education) 6cp
010142 Exchange Elective 3 (Education) 6cp
010143 Exchange Elective 4 (Education) 6cp
015012 International Perspectives on Adult Education 6cp
Total 18cp

CBK90415 Elective
Select 8 credit points from the following options: 8cp
57008 Digital Libraries and Collections 8cp
57084 Information Architecture and Design 8cp
57103 Knowledge Management Strategies 8cp
57148 Organising Information 8cp
57152 Investigative Research in the Digital Environment 8cp
Total 8cp

CBK90416 Master’s option
Select 16 credit points from the following options: 16cp
57104 Information and Knowledge Management Project Part A 4cp
57105 Information and Knowledge Management Project Part B 12cp
57009 Information and Knowledge Management Project 16cp
STM90548 Master’s option 16cp
Total 16cp
CBK90417 Switzerland Language and Culture
Select 32 credit points from the following options:
- CBK90483 French Language and Culture 32cp
- CBK90485 German Language and Culture 32cp
- CBK90418 Bilingual Language and Culture (Switzerland) 32cp
- CBK90486 Italian Language and Culture 32cp
Total 32cp

CBK90418 Bilingual Language and Culture (Switzerland)
Select 32 credit points from the following options:
- CBK90492 German Language and Culture 16cp
- CBK90490 French Language and Culture 16cp
- CBK90493 Italian Language and Culture 16cp
Total 32cp

CBK90419 Options
Select 24 credit points from the following options:
- CBK90421 Options C 24cp
- MAJ09403 Corporate and Commercial Law 24cp
- MAJ09405 International Law 24cp
- MAJ09406 Intellectual Property 24cp
- MAJ09411 Global Business Law 24cp
- MAJ09426 Dispute Resolution 24cp
Total 24cp

CBK90420 Options
Select 6 credit points from the following options:
- 78129 Child Law in Australia 6cp
- 78131 Complex Disputes 6cp
- 78133 Complex Financial and Property Disputes (in Family Law) 6cp
- 78135 Current Issues in Family Law 6cp
- 78141 International and Comparative Family Law 6cp
- 78041 New Families, New Technologies 6cp
- 77745 Negotiation 6cp
- 77746 Advanced Mediation 6cp
- 77760 Family Dispute Resolution 6cp
- 77761 Dispute Resolution in Commerce 6cp
- 77792 Crisis Negotiation 6cp
- 78029 Mediation Practice 6cp
- 78138 Facilitation 6cp
- 78101 Postgraduate Legal Research 6cp
Total 6cp

CBK90421 Options C
Select 24 credit points from the following options:
- 77930 Insurance Law 6cp
- 78111 Banking and Finance Law 6cp
- 78113 Securities Regulation 6cp
- 78115 Financial Analysis for the Transactional Lawyer 6cp
- 78122 Corporate Insolvency 6cp
- 78126 Corporate Governance 6cp
- 78181 Deceptive Trade Practices 6cp
- 78197 Corporate Finance Transactions 1 6cp
- 78199 Corporate Finance Transactions 2 6cp
- 77745 Negotiation 6cp
- 77761 Dispute Resolution in Commerce 6cp
- 77774 Law and Medicine 6cp
- 78147 Dilemmas in Biomedical Law 6cp
- 78041 New Families, New Technologies 6cp
- 78105 Genetics and the Law 6cp
- 78145 Contemporary Issues in Health Law 6cp
- 78150 Law and Mental Health 6cp
- 78184 Intellectual Property: Law and Policy 6cp
- 77889 Trade Marks Law 6cp
- 77890 Trade Marks Practice 6cp
- 77893 Designs Law and Practice 6cp
- 77898 Patent Law 6cp
- 77903 Copyright Law 6cp
- 78186 Intellectual Property and Traditional Knowledge 6cp
- 78188 Intellectual Property Commercialisation 6cp
Total 24cp

CBK90422 Dispute Resolution choice
Select 6 credit points from the following options:
- 77745 Negotiation 6cp
- 77746 Advanced Mediation 6cp
- 77760 Family Dispute Resolution 6cp
- 77761 Dispute Resolution in Commerce 6cp
- 77792 Crisis Negotiation 6cp
- 77850 Psychology and Dispute Resolution 6cp
- 78029 Mediation Practice 6cp
- 78138 Facilitation 6cp
Total 6cp
CBK90423 Family Law choice
Select 6 credit points from the following options: 6cp

78129 Child Law in Australia
78131 Complex Parenting Disputes
78133 Complex Financial and Property Disputes (in Family Law)
78135 Current Issues in Family Law
78141 International and Comparative Family Law
78041 New Families, New Technologies
77760 Family Dispute Resolution

Total 6cp

CBK90424 Options
Select 12 credit points from the following options: 12cp

25849 Financial Risk Management
25850 Credit Risk
25851 Mathematical Finance
25857 Interest Rate Modelling

Total 12cp

CBK90425 Electives
Select 12 credit points from the following options: 12cp

92603 Managing Quality, Risk and Cost in Health Care
92604 Mental Health Assessment
92605 Therapeutic Interventions in Mental Health Care
92607 Education for Practico Development
92721 Health Promotion and Health Education
92847 Planning and Evaluating Health Services
92848 Facilitation of Clinical Learning
92876 Therapeutic Interventions in Mental Health Care
92887 Organisational Management in Health Care
92917 Using Health Care Data for Decision Making
92920 Neuroscience: Trauma and Cerebrovascular
92921 Neuroscience: Degenerative and Oncological
92932 Management for Clinicians
92936 Health Services Resource Management
92938 Epidemiology and Population Health
92922 Improving Quality and Safety in Health Care
92997 Health Systems and Change
92950 Policy, Power and Politics in Health Care
92951 Health Services Management and Legal Issues
92995 Advanced Health Services Planning

Total 12cp

CBK90433 Communication Studies choice
Select 6 credit points from the following options: 6cp

013960 Individual Communication in the Workplace
013961 Team Communication in the Workplace

Total 6cp

CBK90435 Human Resource Development choice
Select 18 credit points from the following options: 18cp

013081 Aboriginal Studies Project
013082 Aboriginal Social and Political History
013088 Educational Management
013099 Individualised Project 1
013102 Introduction to Language
013103 Issues in Aboriginal Education
013110 Programming and Assessment in Language Literacy and Numeracy
013115 Professional Practice and Changing Work
013118 Teaching and Learning Literacy
013124 Work and People
013148 Initiatives in Aboriginal Education
013149 The Language Literacy and Numeracy Learner
013151 Project Management
013152 Individual Difference and Vocational Education Teaching
013056 Language Teaching Methodology
013963 Cultural Diversity at Work
013966 e-Learning Experiences
013967 e-Learning Design

013971 Teaching and Learning Numeracy
013975 Designing and Developing Simulations and Games
013979 Organisational Learning and Change: Local and Global
013981 Teaching Aboriginal Studies

Total 18cp

CBK90436 Sub-major choice
Select 24 credit points from the following options: 24cp

SMJ02044 Mobile Computing
SMJ02045 Applications Development
SMJ02047 IT Management
SMJ02039 Computer Graphics and Animation
SMJ02040 Software Engineering
SMJ08163 Internet Business Technology
SMJ02043 Internetworking

Total 24cp

CBK90437 Options/PLT
Select 24 credit points from the following options: 24cp

STM90102 Practical Legal Training stream
STM90510 Alternative to PLT

Total 24cp

CBK90438 Elective
Select 36 credit points from the following options: 36cp

020704 Studio Practice in Visual Arts
021702 ICT in Primary Education: Current Issues and Applications
023505 Educational Research
024705 Children's Literature and Multi-literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Children's Books
024713 Teaching English to International Students
026702 Music and Society
028412 Art Study 2: A Sense of Place
024422 Children’s Theatre and Creative Arts Study 2: Acting and Performing Skills - Genres for Children
024411 English Study 1: Shapes and Patterns in Literary Narrative from Sendak to Shakespeare
022203 HSIE Study 2: Conflicts and Resolutions
026412 Music Study 2
027411 PDHPE Study 1: Theory and Practice of Personal Development Health and Physical Education and Support
028412 Science and Technology Study 2: Science and Technology in Daily Life
020705 Educational Drama
022204 HSIE Study 3: Multicultural Australia in its Asia-Pacific Regional Context, Implications for Teaching
028413 Science and Technology Study 3: Issues in Science, Technology and Society
024414 English Study 4: Cultural and Textual Cross-currents
024422 Children’s Theatre and Creative Arts Study 3: Production and Direction
024113 Art Study 3: Stories, Myths and Truth
024112 Educational Computing Study 2
028410 International Study
028381 Special Education 1: Managing Challenging Behaviours
028382 Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling
028383 Special Education 3: Educating Students who have Difficulties with Written Text
028384 Special Education 4: Numeracy Instruction for Students with Learning Difficulties and Disabilities
028385 Special Education 5: Educating Students with Moderate and High Support Needs
028386 Special Education 6: Educating Students with Delayed or Disordered Communication
022602 Independent Study
013218 Studio Practice: Painting
013219 Studio Practice: Ceramics
023412 Education Study 2: Value
CBK90443 Major choice
Select 24 credit points from the following options:  
MAJ03416 Environmental Engineering  
MAJ03432 Software Engineering  
MAJ03433 Structural Engineering  
MAJ03434 Telecommunication Networks  
MAJ03435 Telecommunications Engineering  
MAJ03436 Water Engineering  
MAJ03438 Computer Control Engineering  
MAJ03439 Energy Planning and Policy  
MAJ03440 Local Government Engineering  
MAJ03442 Manufacturing Engineering and Management  
MAJ08860 Engineering Management  
CBK90473 No specified major  
MAJ03455 Civil Engineering  
MAJ03461 Geotechnical Engineering  
MAJ03463 Operations  
MAJ03469 Systems Engineering  
MAJ03465 Biomedical Engineering  
Total 24cp

CBK90444 Electives
Select 8 credit points from the following options:  
57023 Communicating with Publics  
57022 Foundations of Communication  
57035 Organisational Change and Communication  
57087 Knowledge Management and the Organisation  
57012 Regulation of the Media  
57013 Journalism Studies  
Total 8cp

CBK90445 Electives
Free choice of electives.

CBK90446 Electives
Free choice of electives.

CBK90447 Project options (MAP)
Free choice of electives.

CBK90448 Electives
Free choice of electives.

CBK90449 Electives
Free choice of electives.

CBK90450 Electives
Free choice of electives.

CBK90451 Professional choice: Public Communication
Select 32 credit points from the following options:  
STM90362 Advertising stream  
STM90363 Public Relations stream  
Total 32cp

CBK90452 Electives
Select 42 credit points from the following options:  
23012 Internet Quality of Service (QoS)  
23500 Advances in Requirements Engineering  
35340 Quantitative Management Practice  
35353 Regression Analysis  
35383 High Performance Computing  
95563 Digital Media Development Process  
95564 Digital Media Technologies  
95565 Digital Graphics and the Still Image  
95566 Digital Information and Interaction Design  
95567 Digital Media in Social Context  
95568 Digital Sound and the Moving Image  
95569 Digital Media Project  
23148 Enterprise Computing  
39998 NET Application Development  
32013 NET Enterprise Development  
32209 Advanced Topics in Computer Networks  
32513 Advanced Data Mining Algorithms  
32541 Project Management  
Total 42cp

CBK90453 Electives
Select 48 credit points from the following options:  
23012 Internet Quality of Service (QoS)  
23500 Advances in Requirements Engineering  
23902 Recent Advances in Information Systems  
35340 Quantitative Management Practice  
35353 Regression Analysis  
35383 High Performance Computing  
32901 Recent Advances in Computer Systems  
32027 Multimedia Systems Design  
32029 Interactive Arts  
32039 Recent Advances in Software Engineering  
32603 Systems Quality Management  
95563 Digital Media Development Process  
95564 Digital Media Technologies  
95565 Digital Graphics and the Still Image  
95566 Digital Information and Interaction Design  
95567 Digital Media in Social Context  
95568 Digital Sound and the Moving Image  
95569 Digital Media Project  
32148 Enterprise Computing  
32210 Computer Vision and Image Processing  
32998 NET Application Development  
32013 NET Enterprise Development  
32209 Advanced Topics in Computer Networks  
32513 Advanced Data Mining Algorithms  
32541 Project Management  
Total 48cp

CBK90454 Electives
Select 18 credit points from the following options:  
24108 Marketing Foundations  
21227 Innovation and Entrepreneurship  
22107 Accounting for Business Decisions A  
25300 Fundamentals of Business Finance  
79006 Intellectual Property Commercialisation  
Total 18cp
### CBK90460 Engineering choice

Select 60 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>48024</td>
<td>Applications Programming</td>
<td>6cp</td>
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<tr>
<td>48430</td>
<td>Embedded C</td>
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<td>48433</td>
<td>Software Architecture</td>
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<td>Software Engineering Practice</td>
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<td>48570</td>
<td>Data Acquisition and Distribution</td>
<td>6cp</td>
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<td>Authentication and System Security</td>
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<td>Communications Networks</td>
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<tr>
<td>48750</td>
<td>Network Planning and Management</td>
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<tr>
<td>48770</td>
<td>Continuous Communications</td>
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</tr>
<tr>
<td>48771</td>
<td>Discrete Communications</td>
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<tr>
<td>48780</td>
<td>Mobile Communications</td>
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<td>48410</td>
<td>Introduction to ICT Engineering</td>
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<td>48441</td>
<td>Introductory Digital Systems</td>
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<tr>
<td>48510</td>
<td>Introduction to Electrical Engineering</td>
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<tr>
<td>48541</td>
<td>Signal Theory</td>
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<td>48720</td>
<td>Network Fundamentals</td>
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<tr>
<td>48310</td>
<td>Introduction to Civil and Environmental Engineering</td>
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<tr>
<td>48320</td>
<td>Surveying</td>
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<td>48321</td>
<td>Engineering Mechanics</td>
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<tr>
<td>48340</td>
<td>Construction</td>
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<tr>
<td>48331</td>
<td>Mechanics of Solids</td>
<td>6cp</td>
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<td>48840</td>
<td>Water Supply and Wastewater Engineering</td>
<td>6cp</td>
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<td>48641</td>
<td>Fluid Mechanics</td>
<td>6cp</td>
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<td>48330</td>
<td>Soil Behaviour</td>
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<tr>
<td>48352</td>
<td>Construction Materials</td>
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<td>48850</td>
<td>Environmental Planning and Law</td>
<td>6cp</td>
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<td>48821</td>
<td>Ecological Engineering</td>
<td>6cp</td>
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<td>6511I</td>
<td>Chemistry 1</td>
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<td>Chemistry and Materials Science</td>
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<td>48353</td>
<td>Concrete Design</td>
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<tr>
<td>48550</td>
<td>Environmental and Sanitation Engineering</td>
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<td>48610</td>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>6cp</td>
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<td>48621</td>
<td>Manufacturing Engineering</td>
<td>6cp</td>
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<td>48620</td>
<td>Fundamentals of Mechanical Engineering</td>
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<td>48640</td>
<td>Machine Dynamics</td>
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<td>48642</td>
<td>Strength of Engineering Materials</td>
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<td>48651</td>
<td>Thermodynamics</td>
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<td>48531</td>
<td>Electromechanical Automation</td>
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<td>48650</td>
<td>Mechanical Design 2</td>
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<td>48520</td>
<td>Electronics and Circuits</td>
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<td>Circuit Analysis</td>
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<td>68508</td>
<td>Advanced Mathematics and Physics</td>
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<td>48540</td>
<td>Signals and Systems</td>
<td>6cp</td>
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<tr>
<td>48550</td>
<td>Renewable Energy Systems</td>
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<tr>
<td>48551</td>
<td>Analog Electronics</td>
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### CBK90462 Electives

Select 12 credit points from the following options:

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<tr>
<th>Code</th>
<th>Course Name</th>
<th>Points</th>
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<tbody>
<tr>
<td>020412</td>
<td>Art Study 2: A Sense of Place</td>
<td>6cp</td>
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<tr>
<td>020413</td>
<td>Art Study 3: Stories, Myths and Truth</td>
<td>6cp</td>
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<tr>
<td>020704</td>
<td>Studio Practice in Visual Arts</td>
<td>6cp</td>
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<tr>
<td>020705</td>
<td>Educational Drama</td>
<td>6cp</td>
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<tr>
<td>021412</td>
<td>Educational Computing Study 2</td>
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<tr>
<td>021702</td>
<td>ICT in Primary Education: Current Issues and Applications</td>
<td>6cp</td>
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<tr>
<td>022203</td>
<td>HSIE Study 2: Conflicts and Resolutions</td>
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<td>022204</td>
<td>HSIE Study 3: Multicultural Australia in its Asia-Pacific Regional Context, Implications for Teaching</td>
<td>6cp</td>
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<td>022601</td>
<td>Learning Beyond the Classroom</td>
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<tr>
<td>022603</td>
<td>Teaching Across the Curriculum</td>
<td>6cp</td>
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<tr>
<td>023505</td>
<td>Educational Research</td>
<td>6cp</td>
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<td>024411</td>
<td>English Study 1: Shapes and Patterns in Literary Narrative from Sendak to Shakespeare</td>
<td>6cp</td>
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<tr>
<td>024414</td>
<td>English Study 4: Cultural and Textual Cross-currents</td>
<td>6cp</td>
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<tr>
<td>024422</td>
<td>Children’s Theatre and Creative Arts Study 2: Acting and Performing Skills - Genres for Children</td>
<td>6cp</td>
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<tr>
<td>024423</td>
<td>Children’s Theatre and Creative Arts Study 3: Production and Direction</td>
<td>6cp</td>
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<tr>
<td>024705</td>
<td>Children’s Literature and Multi-literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Children’s Books</td>
<td>6cp</td>
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<tr>
<td>024713</td>
<td>Teaching English to International Students</td>
<td>6cp</td>
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<td>026412</td>
<td>Music Study 2</td>
<td>6cp</td>
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<td>026702</td>
<td>Music and Society</td>
<td>6cp</td>
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<td>027411</td>
<td>PDHPE Study 1: Theory and Practice of Personal Development Health and Physical Education and Support</td>
<td>6cp</td>
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<tr>
<td>028412</td>
<td>Science and Technology Study 2: Science and Technology in Daily Life</td>
<td>6cp</td>
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<tr>
<td>028413</td>
<td>Science and Technology Study 3: Issues in Science, Technology and Society</td>
<td>6cp</td>
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<tr>
<td>023821</td>
<td>Special Education 1: Managing Challenging Behaviours</td>
<td>6cp</td>
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<tr>
<td>023822</td>
<td>Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling</td>
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<tr>
<td>023823</td>
<td>Special Education 3: Educating Students who have Difficulties with Written Text</td>
<td>6cp</td>
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<td>023824</td>
<td>Special Education 4: Numeracy Instruction for Students with Learning Difficulties and Disabilities</td>
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<td>023825</td>
<td>Special Education 5: Educating Students with Moderate and High Support Needs</td>
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<td>023826</td>
<td>Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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<tr>
<td>022602</td>
<td>Independent Study</td>
<td>6cp</td>
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<tr>
<td>020411</td>
<td>Art Study 1: People in Art</td>
<td>6cp</td>
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<tr>
<td>020414</td>
<td>Art Study 4: Design and Power</td>
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<td>020703</td>
<td>Issues in Art Education</td>
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<td>022210</td>
<td>HSIE Study 4: Family History in its Social Context</td>
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<td>023200</td>
<td>HSIE Study 1: Social Issues and Social Action</td>
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<tr>
<td>023614</td>
<td>International Perspectives on Education</td>
<td>6cp</td>
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<tr>
<td>023621</td>
<td>School and Community Relations</td>
<td>6cp</td>
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<tr>
<td>024412</td>
<td>English Study 2: Images of Australia, the Place and the People - Literary Representations in Prose, Poetry and Drama</td>
<td>6cp</td>
</tr>
<tr>
<td>024413</td>
<td>English Study 3: The Literature of Protest</td>
<td>6cp</td>
</tr>
<tr>
<td>024421</td>
<td>Children’s Theatre and the Creative Arts 1: Overview of World Theatre, Production Roles, Script Writing</td>
<td>6cp</td>
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<tr>
<td>024711</td>
<td>Language, Literacy and Education</td>
<td>6cp</td>
</tr>
<tr>
<td>024712</td>
<td>Approaches to the Teaching of English</td>
<td>6cp</td>
</tr>
<tr>
<td>026411</td>
<td>Music Study 1</td>
<td>6cp</td>
</tr>
<tr>
<td>027412</td>
<td>Personal Development Health and Physical Education: Teachers and Physical Activity</td>
<td>6cp</td>
</tr>
<tr>
<td>027413</td>
<td>Specialisation Study 3: Issues in Personal Development, Health and Physical Education</td>
<td>6cp</td>
</tr>
<tr>
<td>028411</td>
<td>Science and Technology Study 1: The Human Body</td>
<td>6cp</td>
</tr>
<tr>
<td>028414</td>
<td>Science and Technology Study 4: Planet Earth</td>
<td>6cp</td>
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<tr>
<td>010050</td>
<td>Student Welfare: Implications for Teaching and Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>010051</td>
<td>Beginning Teaching: Surviving and Thriving</td>
<td>6cp</td>
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<tr>
<td>013218</td>
<td>Studio Practice: Painting</td>
<td>6cp</td>
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<tr>
<td>013219</td>
<td>Studio Practice: Ceramics</td>
<td>6cp</td>
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### CBK90463 Animation Project choice

Select 24 credit points from the following options:

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<tr>
<th>Code</th>
<th>Course Name</th>
<th>Points</th>
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<tbody>
<tr>
<td>89990</td>
<td>Animation Project</td>
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<tr>
<td>89991</td>
<td>Animation Project A</td>
<td>12cp</td>
</tr>
<tr>
<td>89992</td>
<td>Animation Project B</td>
<td>12cp</td>
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<td></td>
<td>Total 24cp</td>
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</tbody>
</table>
### CBK90464 Animation subjects choice
Select 42 credit points from the following options:  
- Computer Game Design (6cp)
- Computer Graphics (6cp)
- Principles of Object-oriented Programming in C++ (6cp)
- 2D Digital Animation (6cp)
- 3D Digital Animation 2 (6cp)
- 3D Digital Animation 1 (6cp)
- Writing for the Screen (6cp)
- Sound and Interaction (6cp)
- Moving Image (6cp)
- Design for Three-Dimensional Computer Animation (6cp)
- Digital and Multiplatform Storytelling (6cp)
- Total 42cp

### CBK90465 Internetworking choice
Select 18 credit points from the following options:  
- Mobile Commerce Technologies (6cp)
- Advanced Routing Principles (6cp)
- Wide Area Network Implementation (6cp)
- Multilayer Switched Networks (6cp)
- Troubleshooting and Converged Networks (6cp)
- Internet Quality of Service (QoS) (6cp)
- Mobile Communications and Computing (6cp)
- UNIX Systems Administration (6cp)
- WANS and VLANS (6cp)
- Web Services Technologies and Applications (6cp)
- Internetwork Design (6cp)
- Advanced Topics in Computer Networks (6cp)
- Operating Systems for Network Security (6cp)
- Network Security (6cp)
- Total 18cp

### CBK90468 Engineering choice
Select 84 credit points from the following options:  
- 3G Mobile Communication Systems (6cp)
- GSM, GPRS and EDGE Technologies (6cp)
- Wireless Networking Technologies (6cp)
- 4G Mobile Communication Systems (6cp)
- 3G Mobile Communications and Computing (6cp)
- UNIX Systems Administration (6cp)
- Network Security (6cp)
- Enterprise Computing (6cp)
- .NET Enterprise Development (6cp)
- Total 84cp

### CBK90471 Innovation choice
Select 12 credit points from the following options:  
- Global Operations and Supply Chain Management (6cp)
- Innovation and Entrepreneurship (6cp)
- Accounting for Business Decisions A (6cp)
- Fundamentals of Business Finance (6cp)
- Intellectual Property Commercialisation (6cp)
- Total 12cp

### CBK90472 No specified major
This study package allows candidates to tailor their own program of study in various ways such as:  
- combining technical subjects from two or more major areas  
- combining fewer than the required minimum number of technical major subjects and a number of engineering management subjects  
- combining any postgraduate engineering subjects in a coherent and logical form based around some type of theme.

A program of subjects is normally identified prior to enrolment, in consultation with one or more academic members of staff, and approved by the Director of PG coursework programs.

### Completion requirements
Free choice of electives.

### CBK90473 No specified major
This study package allows candidates to tailor their own program of study in various ways such as:  
- combining technical subjects from two or more major areas  
- combining fewer than the required minimum number of technical major subjects and a number of engineering management subjects  
- combining any postgraduate engineering subjects in a coherent and logical form based around some type of theme.
A program of subjects is normally identified prior to enrolment, in consultation with one or more academic members of staff, and approved by the Director of PG coursework programs. This study package also requires the completion of a graduate project which is also consistent with the ‘theme’ alluded to in the text above.

**Completion requirements**
Free choice of electives.

**CBK90474 Elective**
Free choice of electives.

**CBK90475 Capstone Project**
Select 12 credit points from the following options:
- 48016 Capstone Project Part A 6cp
- 48026 Capstone Project Part B 6cp
- 48012 Capstone Project 12cp
Total 12cp

**CBK90476 Internetworking choice**
Select 6 credit points from the following options:
- 32001 Mobile Commerce Technologies 6cp
- 32521 WANS and VLANS 6cp
- 32702 Contemporary Telecommunications 6cp
Total 6cp

**CBK90477 Internetworking choice**
Free choice of electives.

**CBK90478 Computer Control choice**
Select 12 credit points from the following options:
- 49261 Biomedical Instrumentation 6cp
- 49274 Advanced Robotics 6cp
- 49275 Neural Networks and Fuzzy Logic 6cp
- 49227 Wireless Sensor Networks 6cp
Total 12cp

**CBK90479 Computer Systems choice**
Select 6 credit points from the following options:
- 49261 Biomedical Instrumentation 6cp
- 49274 Advanced Robotics 6cp
- 49275 Neural Networks and Fuzzy Logic 6cp
Total 6cp

**CBK90480 Chinese Language and Culture**
Select 32 credit points from the following options:
- 97101 Chinese Language and Culture 1 8cp
- 97102 Chinese Language and Culture 2 8cp
- 97103 Chinese Language and Culture 3 8cp
- 97104 Chinese Language and Culture 4 8cp
- 97105 Chinese Language and Culture 5 8cp
- 97106 Chinese Language and Culture 6 8cp
- 97107 Chinese Festivals and Ceremonies 8cp
- 97112 Chinese Film 8cp
- 97109 Chinese Mass Media 8cp
- 97110 Twentieth Century Chinese Fiction 8cp
Total 32cp

**CBK90481 Japanese Language and Culture**
Select 32 credit points from the following options:
- 97201 Japanese Language and Culture 1 8cp
- 97202 Japanese Language and Culture 2 8cp
- 97203 Japanese Language and Culture 3 8cp
- 97204 Japanese Language and Culture 4 8cp
- 97205 Japanese Language and Culture 5 8cp
- 97206 Japanese Language and Culture 6 8cp
- 97207 Japanese Films and Popular Culture 8cp
- 97208 Japanese Language and Identity 8cp
- 97209 Japanese Media and Current Issues 8cp
- 97210 Transcultural Communication in Japanese 8cp
Total 32cp

**CBK90483 French Language and Culture**
Select 32 credit points from the following options:
- 97401 French Language and Culture 1 8cp
- 97402 French Language and Culture 2 8cp
- 97403 French Language and Culture 3 8cp
- 97404 French Language and Culture 4 8cp
- 97405 French Language and Culture 5 8cp
- 97406 French Language and Culture 6 8cp
- 97407 Francophone Identities in Conflict 8cp
- 97408 Show and Tell: Francophone Cultures on Display 8cp
- 97409 Francophone Cultures of Consumption 8cp
- 97410 Places and Spaces of the Francophone World 8cp
Total 32cp

**CBK90484 Spanish Language and Culture**
Select 32 credit points from the following options:
- 97501 Spanish Language and Culture 1 8cp
- 97502 Spanish Language and Culture 2 8cp
- 97503 Spanish Language and Culture 3 8cp
- 97504 Spanish Language and Culture 4 8cp
- 97505 Spanish Language and Culture 5 8cp
- 97506 Spanish Language and Culture 6 8cp
- 97507 Spanish Language and Culture 7 8cp
- 97508 Spanish Language and Culture 8 8cp
- 97509 Spanish Language and Culture 9 8cp
- 97510 Spanish Language and Culture 10 8cp
Total 32cp

**CBK90485 German Language and Culture**
Select 32 credit points from the following options:
- 97601 German Language and Culture 1 8cp
- 97602 German Language and Culture 2 8cp
- 97603 German Language and Culture 3 8cp
- 97604 German Language and Culture 4 8cp
- 97605 German Language and Culture 5 8cp
- 97606 German Language and Culture 6 8cp
- 97607 German Language and Culture 7 8cp
- 97608 German Language and Culture 8 8cp
- 97609 German Language and Culture 9 8cp
- 97610 German Language and Culture 10 8cp
Total 32cp

**CBK90486 Italian Language and Culture**
Select 32 credit points from the following options:
- 97801 Italian Language and Culture 1 8cp
- 97802 Italian Language and Culture 2 8cp
- 97803 Italian Language and Culture 3 8cp
- 97804 Italian Language and Culture 4 8cp
- 97805 Italian Language and Culture 5 8cp
- 97806 Italian Language and Culture 6 8cp
- 97807 Italian Language and Culture 7 8cp
- 97808 Italian Language and Culture 8 8cp
- 97809 Italian Language and Culture 9 8cp
- 97810 Italian Language and Culture 10 8cp
Total 32cp

**CBK90487 Chinese Language and Culture**
Select 16 credit points from the following options:
- 97101 Chinese Language and Culture 1 8cp
- 97102 Chinese Language and Culture 2 8cp
- 97103 Chinese Language and Culture 3 8cp
- 97104 Chinese Language and Culture 4 8cp
- 97105 Chinese Language and Culture 5 8cp
- 97106 Chinese Language and Culture 6 8cp
- 97111 Chinese Festivals and Ceremonies 8cp
- 97112 Chinese Film 8cp
- 97109 Chinese Mass Media 8cp
- 97110 Twentieth Century Chinese Fiction 8cp
Total 16cp
### CBK90490 French Language and Culture
Select 16 credit points from the following options:

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<th>Course Name</th>
<th>Credit Points</th>
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<td>97401</td>
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<td>French Language and Culture 2</td>
<td>8cp</td>
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<td>97403</td>
<td>French Language and Culture 3</td>
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<td>97406</td>
<td>French Language and Culture 6</td>
<td>8cp</td>
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<tr>
<td>97407</td>
<td>Francophone Identities in Conflict</td>
<td>8cp</td>
</tr>
<tr>
<td>97408</td>
<td>Show and Tell: Francophone Cultures on Display</td>
<td>8cp</td>
</tr>
<tr>
<td>97409</td>
<td>Francophone Cultures of Consumption</td>
<td>8cp</td>
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<td>97410</td>
<td>Places and Spaces of the Francophone World</td>
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### CBK90491 Spanish Language and Culture
Select 16 credit points from the following options:

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<th>Credit Points</th>
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<tr>
<td>97502</td>
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<td>97503</td>
<td>Spanish Language and Culture 3</td>
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<td>97510</td>
<td>Spanish Language and Culture 10</td>
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### CBK90492 German Language and Culture
Select 16 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>97601</td>
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</tr>
<tr>
<td>97602</td>
<td>German Language and Culture 2</td>
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<td>97603</td>
<td>German Language and Culture 3</td>
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### CBK90493 Italian Language and Culture
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### CBK90494 Chinese Language and Culture
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<td>97112</td>
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<tr>
<td>97109</td>
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<td>Twentieth Century Chinese Fiction</td>
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### CBK90495 Japanese Language and Culture
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<td>97207</td>
<td>Japanese Films and Popular Culture</td>
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<td>97208</td>
<td>Japanese Language and Identity</td>
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<tr>
<td>97209</td>
<td>Japanese Media and Current Issues</td>
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<td>Transcultural Communication in Japanese</td>
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### CBK90496 Transcultural Communication in Japanese
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<td>Francophone Identities in Conflict</td>
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<td>97403</td>
<td>Show and Tell: Francophone Cultures on Display</td>
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<td>97404</td>
<td>Places and Spaces of the Francophone World</td>
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### CBK90497 World Display
Select 24 credit points from the following options:

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<tbody>
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<td>97107</td>
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<td>Francophone Cultures of Consumption</td>
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<tr>
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<td>Places and Spaces of the Francophone World</td>
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### CBK90498 Chinese Film
Select 24 credit points from the following options:

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### CBK90499 German Language and Culture
Select 24 credit points from the following options:

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<th>Credit Points</th>
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<tbody>
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### CBK90500 Italian Language and Culture
Select 24 credit points from the following options:

<table>
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<tbody>
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**Total 24cp**

### CBK90501 Major choice (Legal Studies)
Select 30 credit points from the following options:

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<tr>
<td>MAJ09388</td>
<td>Commercial Law</td>
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<tr>
<td>MAJ09322</td>
<td>Dispute Resolution</td>
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<tr>
<td>MAJ09323</td>
<td>Information Technology Law</td>
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<tr>
<td>MAJ09363</td>
<td>Industrial and Intellectual Property Law</td>
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<td>MAJ09389</td>
<td>International Trade Law</td>
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</tr>
<tr>
<td>MAJ09367</td>
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**Total 30cp**

### CBK90502 Electives
Select 42 credit points from the following options:

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<tbody>
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<td>32902</td>
<td>Recent Advances in Information Systems and Outsourcing</td>
<td>6cp</td>
</tr>
<tr>
<td>32145</td>
<td>Strategic Leadership for Innovation</td>
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<tr>
<td>32148</td>
<td>Strategic Information Technology Investment</td>
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<tr>
<td>32149</td>
<td>Enterprise Computing</td>
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<td>Information Systems Strategy</td>
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<td>32531</td>
<td>Global Information Systems</td>
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<td>32601</td>
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**Total 42cp**

### CBK90503 No specified major
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<td>European Union Law</td>
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<td>Crisis Negotiation</td>
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<td>New Families, New Technologies</td>
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<td>Child Law in Australia</td>
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<td>78131</td>
<td>Complex Parenting Disputes</td>
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<td>Complex Financial and Property Disputes (in Family Law)</td>
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<td>International Environmental Law: Policy and Implementation</td>
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<td>Private International Law</td>
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<td>Global Governance and Social Justice</td>
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<td>Law and Regulation</td>
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<tr>
<td>78166</td>
<td>Media and Entertainment Law and Regulation</td>
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<td>Regulatory Strategies and Compliance Principles</td>
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<td>Telecommunications Law and Regulations</td>
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<td>Dispute Resolution in Civil Practice</td>
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<td>78181</td>
<td>Deceptive Trade Practices</td>
<td>6cp</td>
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<tr>
<td>78182</td>
<td>Human Rights Law</td>
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<tr>
<td>78188</td>
<td>Intellectual Property Commercialisation</td>
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<tr>
<td>78184</td>
<td>Intellectual Property: Law and Policy</td>
<td>6cp</td>
</tr>
<tr>
<td>78186</td>
<td>Intellectual Property and Traditional Knowledge</td>
<td>6cp</td>
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<tr>
<td>78197</td>
<td>Corporate Finance Transactions 1</td>
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<tr>
<td>78199</td>
<td>Corporate Finance Transactions 2</td>
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<tr>
<td>78201</td>
<td>International Development Law</td>
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<tr>
<td>78206</td>
<td>International Organisations</td>
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</table>

**Total 30cp**

### CBK90504 New Media choice
Free choice of electives.

### CBK90505 Media Production choice
Select 16 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>50001</td>
<td>Online Documentary</td>
<td>8cp</td>
</tr>
<tr>
<td>57109</td>
<td>Film Animation</td>
<td>8cp</td>
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</table>

**Total 16cp**

### CBK90506 Media Arts and Production choice
Select 48 credit points from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>STM40005</td>
<td>Film and Video stream</td>
<td>48cp</td>
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<tr>
<td>STM40009</td>
<td>Sound stream</td>
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<tr>
<td>STM40094</td>
<td>New Media stream</td>
<td>48cp</td>
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**Total 48cp**
Select 24 credit points from the following options: 24cp

76047 Advanced Contracts 6cp
76016 Advanced Revenue Law 6cp
76003 Asian Law and Legal Systems 6cp
76074 Australian Civil Liberties Law 6cp
76070 Biomedical Law and Bioethics 6cp
76066 Children and the Law 6cp
76048 Citizenship and Immigration Law 6cp
76042 Electronic Communications Content Regulation 6cp
76069 Community Justice Studies 6cp
78021 Contemporary Issues in Constitutional Law 6cp
76073 Contemporary Legal Studies 1 6cp
76076 Contemporary Legal Studies 2 6cp
76012 Criminology 6cp
76025 Deceptive Trade Practices and Product Liability 6cp
76052 Dispute Resolution Advocacy 6cp
76041 Environmental Law 6cp
76801 Exchange Subject 1 6cp
76802 Exchange Subject 2 6cp
76803 Exchange Subject 3 6cp
76804 Exchange Subject 4 6cp
76516 Family Law 6cp
76080 Finance Law 6cp
76007 International Human Rights Law 6cp
76068 Indigenous Peoples and the Law 6cp
76703 Indigenous Peoples, the Environment and Property 6cp
76053 Industrial Law 6cp
76115 Insolvency 6cp
76521 Intellectual Property and Traditional Knowledge 6cp
77794 International Environmental Law 6cp
76005 Islamic Law 6cp
76039 Jessup International Moot 6cp
76008 Jurisprudence 6cp
76015 Labour Law 6cp
76045 Medicine and Law 6cp
79008 Law of the Sea 6cp
76063 Media Law 6cp
76900 Moot 6cp
76006 Public International Law 6cp
76040 Research Thesis 6cp
76022 Reputation Law 6cp
76002 Sports Law 6cp
76517 Succession 6cp
76901 Vis Arbitral Moot 6cp
76212 Revenue Law 6cp
77704 European Union Law 6cp
77715 Banking Law 6cp
77901 Securities Markets Law 6cp
79025 Intellectual Property: Law and Policy 6cp
76081 Gender, Law and Sexuality 6cp
79840 The Law and Education 6cp
78042 Environmental Planning and Development Law 6cp
76082 International Regulation of Financial Institutions 6cp
76037 Advanced Criminal Law 6cp
78039 Wickedness and Vice 6cp
76019 Broadcasting and Telecommunications Regulation 6cp
76009 Introduction to Chinese Business Law 6cp
76013 World Trade Law 6cp
76001 Comparative Law 6cp
76112 Conflict of Laws 6cp
76010 Disability and the Law 6cp
76020 Entertainment Law 6cp
76021 Advanced Remedies 6cp
78013 Refugee Law and Practice 6cp
76022 Insurance Law 6cp
76025 International Organisations 6cp
76092 Law and Literature 6cp
76903 International Commercial Transactions 6cp
78030 Criminal Sentencing Law 6cp
76030 Genetics and the Law 6cp
76033 Animal Law and Policy in Australia 6cp
76034 Law of Slavery and Human Trafficking 6cp
76041 Climate Law and Carbon Markets 6cp
76038 Law and Mental Health 6cp
76036 International Trade Law and the Environment 6cp
76043 Building and Construction Law 6cp
76056 Intellectual Property Commercialisation Overview 6cp
76904 Price International Media Law Moot 6cp

Total 24cp

CBK90508 Sub-major/Four electives
Select 24 credit points from the following options: 24cp

SMJ06020 Anaesthetics and Recovery Room Nursing 24cp
SMJ06022 Children's Nursing 24cp
SMJ06023 Critical Care Nursing 24cp
SMJ06024 Mental Health Nursing 24cp
SMJ06025 Neonatal Nursing 24cp
SMJ06026 Neuroscience Nursing 24cp
CBK90509 Electives 24cp
SMJ06027 Perioperative Nursing 24cp
SMJ06032 Acute Care Nursing 24cp
SMJ06033 Child and Family Health Nursing 24cp
SMJ06034 Diabetes Education and Management 24cp

Total 24cp

CBK90509 Electives
Select 24 credit points from the following options: 24cp

CBK905010 Electives
Select 18 credit points from the following options: 18cp

CBK905010 Electives
Select 18 credit points from the following options: 18cp

92604 Mental Health Assessment 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
92713 Health Breakdown 6cp
92869 Speciality Clinical Practice 6cp
92871 Perinatal Development 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
92878 Care of the Child in Illness and Disability 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp
92895 Issues in Neonatal Care 6cp
92902 Care of the Acutely Ill Child 6cp
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Fundamentals of Postanaesthesia Recovery Nursing 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92919 Complex Critical Care 6cp
92920 Neuroscience: Trauma and Cerebrovascular 6cp
92921 Neuroscience: Degenerative and Oncological 6cp
92922 Core Concepts in Acute Care Nursing 6cp
92917 Early Interventions in Acute Care Nursing 6cp

Total 24cp

CBK90510 Electives
Select 18 credit points from the following options: 18cp

92604 Mental Health Assessment 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
92713 Health Breakdown 6cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
92607 Education for Practice Development 6cp
92721 Health Promotion and Health Education 6cp
92847 Planning and Evaluating Health Services 6cp
92848 Facilitation of Clinical Learning 6cp
92871 Perinatal Development 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
92878 Care of the Child in Illness and Disability 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp
92887 Organisational Management in Health Care 6cp
92881 Foundations of Perioperative Nursing 6cp
92895 Issues in Neonatal Care 6cp
92902 Care of the Acutely Ill Child 6cp
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Fundamentals of Postanaesthesia Recovery Nursing 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92919 Complex Critical Care 6cp
92920 Neuroscience: Trauma and Cerebrovascular 6cp
92921 Neuroscience: Degenerative and Oncological 6cp
92922 Core Concepts in Acute Care Nursing 6cp
92917 Early Interventions in Acute Care Nursing 6cp

Total 24cp

CBK90510 Electives
Select 18 credit points from the following options: 18cp

92604 Mental Health Assessment 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
92713 Health Breakdown 6cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
92607 Education for Practice Development 6cp
92721 Health Promotion and Health Education 6cp
92847 Planning and Evaluating Health Services 6cp
92848 Facilitation of Clinical Learning 6cp
92871 Perinatal Development 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
92878 Care of the Child in Illness and Disability 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp
92887 Organisational Management in Health Care 6cp
92881 Foundations of Perioperative Nursing 6cp
92895 Issues in Neonatal Care 6cp
92902 Care of the Acutely Ill Child 6cp
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Fundamentals of Postanaesthesia Recovery Nursing 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92919 Complex Critical Care 6cp
92920 Neuroscience: Trauma and Cerebrovascular 6cp
92921 Neuroscience: Degenerative and Oncological 6cp
92922 Core Concepts in Acute Care Nursing 6cp
92917 Early Interventions in Acute Care Nursing 6cp

Total 24cp

CBK90510 Electives
Select 18 credit points from the following options: 18cp

92604 Mental Health Assessment 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
92713 Health Breakdown 6cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
92607 Education for Practice Development 6cp
92721 Health Promotion and Health Education 6cp
92847 Planning and Evaluating Health Services 6cp
92848 Facilitation of Clinical Learning 6cp
92871 Perinatal Development 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
92878 Care of the Child in Illness and Disability 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp
92887 Organisational Management in Health Care 6cp
92881 Foundations of Perioperative Nursing 6cp
92895 Issues in Neonatal Care 6cp
92902 Care of the Acutely Ill Child 6cp
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Fundamentals of Postanaesthesia Recovery Nursing 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92919 Complex Critical Care 6cp
92920 Neuroscience: Trauma and Cerebrovascular 6cp
92921 Neuroscience: Degenerative and Oncological 6cp
92922 Core Concepts in Acute Care Nursing 6cp
92917 Early Interventions in Acute Care Nursing 6cp

Total 24cp
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>92921</td>
<td>Neuroscience: Degenerative and Oncological</td>
<td>6cp</td>
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<tr>
<td>92932</td>
<td>Management for Clinicians</td>
<td>6cp</td>
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<tr>
<td>92609</td>
<td>Pharmacological Therapies in Advanced Practice</td>
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<td>92946</td>
<td>Project Part A</td>
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<td>Project Part B</td>
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<td>Project</td>
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<td>92616</td>
<td>Core Concepts in Acute Care Nursing</td>
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<td>92617</td>
<td>Early Interventions in Acute Care Nursing</td>
<td>6cp</td>
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<tr>
<td>92023</td>
<td>Health Services Resource Management</td>
<td>6cp</td>
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<tr>
<td>92926</td>
<td>Epidemiology and Population Health</td>
<td>6cp</td>
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<td>92922</td>
<td>Improving Quality and Safety in Health Care</td>
<td>6cp</td>
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<td>92297</td>
<td>Health Systems and Change</td>
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<td>Law, Ethics and Accountability in Advanced Practice</td>
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<td>98728</td>
<td>Leadership, Accountability and Role Development in Advanced Practice</td>
<td>6cp</td>
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<tr>
<td>92613</td>
<td>Principles of Child and Family Health Nursing</td>
<td>6cp</td>
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<tr>
<td>92934</td>
<td>Clinical Management of Diabetes</td>
<td>6cp</td>
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<tr>
<td>015356</td>
<td>Learning in Diabetes Education</td>
<td>6cp</td>
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<tr>
<td>92845</td>
<td>Primary Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92620</td>
<td>Family and Community Health Practice</td>
<td>6cp</td>
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**CBK90512 Sub-major/Four electives**

Select 24 credit points from the following options: 24cp

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<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>SMJ06020</td>
<td>Anaesthetics and Recovery Room Nursing</td>
<td>24cp</td>
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<tr>
<td>SMJ06022</td>
<td>Children’s Nursing</td>
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</tr>
<tr>
<td>SMJ06023</td>
<td>Critical Care Nursing</td>
<td>24cp</td>
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<tr>
<td>SMJ06024</td>
<td>Mental Health Nursing</td>
<td>24cp</td>
</tr>
<tr>
<td>SMJ06025</td>
<td>Neonatal Nursing</td>
<td>24cp</td>
</tr>
<tr>
<td>SMJ06026</td>
<td>Neuroscience Nursing</td>
<td>24cp</td>
</tr>
<tr>
<td>SMJ06027</td>
<td>Perioperative Nursing</td>
<td>24cp</td>
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<tr>
<td>SMJ07002</td>
<td>Clinical Teaching</td>
<td>24cp</td>
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<tr>
<td>CBK90515</td>
<td>Electives</td>
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<tr>
<td>SMJ06032</td>
<td>Acute Care Nursing</td>
<td>24cp</td>
</tr>
<tr>
<td>SMJ06033</td>
<td>Child and Family Health Nursing</td>
<td>24cp</td>
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<tr>
<td>SMJ06034</td>
<td>Diabetes Education and Management</td>
<td>24cp</td>
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<td></td>
<td><strong>Total 24cp</strong></td>
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</table>

**CBK90513 Sub-major/Four electives**

International students can only undertake the Clinical Teaching sub-major or the Clinical Management sub-major.

**Completion requirements**

Select 24 credit points from the following options: 24cp

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
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<tr>
<td>SMJ08194</td>
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<td>CBK90516</td>
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**CBK90514 Electives**

Select 12 credit points from the following options: 12cp

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<th>Course Title</th>
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</thead>
<tbody>
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<td>Managing Quality, Risk and Cost in Health Care</td>
<td>6cp</td>
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<tr>
<td>92604</td>
<td>Mental Health Assessment</td>
<td>6cp</td>
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<tr>
<td>92605</td>
<td>Therapeutic Interventions in Mental Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92607</td>
<td>Education for Practice Development</td>
<td>6cp</td>
</tr>
<tr>
<td>92713</td>
<td>Health Breakdown</td>
<td>6cp</td>
</tr>
<tr>
<td>92721</td>
<td>Health Promotion and Health Education</td>
<td>6cp</td>
</tr>
<tr>
<td>92847</td>
<td>Planning and Evaluating Health Services</td>
<td>6cp</td>
</tr>
<tr>
<td>92848</td>
<td>Facilitation of Clinical Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>92871</td>
<td>Perinatal Development</td>
<td>6cp</td>
</tr>
<tr>
<td>92876</td>
<td>Therapeutic Interventions in Mental Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92881</td>
<td>Foundations of Perioperative Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92882</td>
<td>Techniques in Perioperative Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92887</td>
<td>Organisational Management in Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92895</td>
<td>Issues in Neonatal Care</td>
<td>6cp</td>
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<tr>
<td>92902</td>
<td>Care of the Acutely Ill Child</td>
<td>6cp</td>
</tr>
<tr>
<td>92905</td>
<td>Dimensions of Anaesthesia Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92760</td>
<td>Fundamentals of Postanaesthesia Recovery Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92917</td>
<td>Using Health Care Data for Decision</td>
<td>6cp</td>
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<tr>
<td>92918</td>
<td>Fundamentals of Critical Care Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92919</td>
<td>Complex Critical Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92920</td>
<td>Neuroscience: Trauma and Cerebrovascular Disorders</td>
<td>6cp</td>
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<tr>
<td>92921</td>
<td>Neuroscience: Degenerative and Oncological</td>
<td>6cp</td>
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<tr>
<td>92932</td>
<td>Management for Clinicians</td>
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<tr>
<td>92978</td>
<td>Care of the Child in Illness and Disability</td>
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<tr>
<td>92964</td>
<td>Child and Adolescent Mental Health Disorders</td>
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<td>92609</td>
<td>Pharmacological Therapies in Advanced Practice</td>
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<td>92616</td>
<td>Core Concepts in Acute Care Nursing</td>
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<td>92617</td>
<td>Early Interventions in Acute Care Nursing</td>
<td>6cp</td>
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<td>92015</td>
<td>Health Services Management and Legal Issues</td>
<td>6cp</td>
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<td>92295</td>
<td>Advanced Health Services Planning</td>
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<td>92021</td>
<td>Perinatal Mental Health</td>
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<td>Research in Health</td>
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<td>Leadership, Accountability and Role Development in Advanced Practice</td>
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<td>Principles of Child and Family Health Nursing</td>
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<td>015356</td>
<td>Learning in Diabetes Education</td>
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<td>Primary Health Care</td>
<td>6cp</td>
</tr>
<tr>
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**CBK90515 Electives**

Select 24 credit points from the following options: 24cp

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<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>92603</td>
<td>Managing Quality, Risk and Cost in Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92604</td>
<td>Mental Health Assessment</td>
<td>6cp</td>
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<tr>
<td>92605</td>
<td>Therapeutic Interventions in Mental Health Care</td>
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<td>Health Breakdown</td>
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<td>Organisational Management in Health Care</td>
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<tr>
<td>92895</td>
<td>Issues in Neonatal Care</td>
<td>6cp</td>
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<tr>
<td>92902</td>
<td>Care of the Acutely Ill Child</td>
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<tr>
<td>92905</td>
<td>Dimensions of Anaesthesia Nursing</td>
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<td>Neuroscience: Degenerative and Oncological</td>
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<tr>
<td>92932</td>
<td>Management for Clinicians</td>
<td>6cp</td>
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<tr>
<td>92978</td>
<td>Care of the Child in Illness and Disability</td>
<td>6cp</td>
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<tr>
<td>92964</td>
<td>Child and Adolescent Mental Health Disorders</td>
<td>6cp</td>
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<td>92609</td>
<td>Pharmacological Therapies in Advanced Practice</td>
<td>6cp</td>
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<tr>
<td>92616</td>
<td>Core Concepts in Acute Care Nursing</td>
<td>6cp</td>
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<td>92617</td>
<td>Early Interventions in Acute Care Nursing</td>
<td>6cp</td>
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<td>92015</td>
<td>Health Services Management and Legal Issues</td>
<td>6cp</td>
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<td>92295</td>
<td>Advanced Health Services Planning</td>
<td>6cp</td>
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<td>92021</td>
<td>Perinatal Mental Health</td>
<td>6cp</td>
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<td>92612</td>
<td>Research in Health</td>
<td>6cp</td>
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<tr>
<td>92610</td>
<td>Law, Ethics and Accountability in Advanced Practice</td>
<td>6cp</td>
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<tr>
<td>92925</td>
<td>Leadership, Accountability and Role Development in Advanced Practice</td>
<td>6cp</td>
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<tr>
<td>92613</td>
<td>Principles of Child and Family Health Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92934</td>
<td>Clinical Management of Diabetes</td>
<td>6cp</td>
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<tr>
<td>015356</td>
<td>Learning in Diabetes Education</td>
<td>6cp</td>
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<tr>
<td>92845</td>
<td>Primary Health Care</td>
<td>6cp</td>
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<tr>
<td>92620</td>
<td>Family and Community Health Practice</td>
<td>6cp</td>
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<td><strong>Total 24cp</strong></td>
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CBK90516 Electives
Select 24 credit points from the following options: 24cp
92603 Managing Quality, Risk and Cost in Health Care 6cp
92607 Education for Practice Development 6cp
92713 Health Breakdown 6cp
92848 Facilitation of Clinical Learning 6cp
92869 Specialty Clinical Practice 6cp
92887 Organisational Management in Health Care 6cp
92932 Management for Clinicians 6cp
92613 Principles of Child and Family Health Nursing 6cp
92934 Clinical Management of Diabetes 6cp
015356 Learning in Diabetes Education 6cp
92845 Primary Health Care 6cp
92620 Family and Community Health Practice 6cp
Total 24cp

CBK90517 Electives
Select 16 credit points from the following options: 16cp
57008 Digital Libraries and Collections 8cp
57013 Knowledge Management Strategies 8cp
57147 Enterprise Content Management 8cp
57152 Investigative Research in the Digital Environment 8cp
57153 Digital Curation 8cp
57181 Recordkeeping Fundamentals 8cp
Total 16cp

CBK90518 Electives
Select 16 credit points from the following options: 16cp
57153 Digital Curation 8cp
57008 Digital Libraries and Collections 8cp
57084 Information Architecture and Design 8cp
57089 Information Research and Data Analysis 8cp
57146 Organising Information 8cp
57147 Enterprise Content Management 8cp
57148 Discovering and Accessing Information 8cp
57152 Investigative Research in the Digital Environment 8cp
57181 Recordkeeping Fundamentals 8cp
Total 16cp

CBK90520 Electives
Select 16 credit points from the following options: 16cp
57153 Digital Curation 8cp
57008 Digital Libraries and Collections 8cp
57089 Information Research and Data Analysis 8cp
57087 Knowledge Management and the Organisation 8cp
57103 Knowledge Management Strategies 8cp
57147 Enterprise Content Management 8cp
57181 Recordkeeping Fundamentals 8cp
Total 16cp

CBK90521 Electives
Select 16 credit points from the following options: 16cp
57008 Digital Libraries and Collections 8cp
57084 Information Architecture and Design 8cp
57146 Organising Information 8cp
57147 Enterprise Content Management 8cp
57148 Discovering and Accessing Information 8cp
57152 Investigative Research in the Digital Environment 8cp
57153 Digital Curation 8cp
57181 Recordkeeping Fundamentals 8cp
Total 16cp

CBK90522 Electives (Legal Studies)
Free choice of electives.

CBK90522 Options (Legal Studies)
Select 12 credit points from the following options: 12cp
77701 International Economic Law (PG) 6cp
77704 European Union Law 6cp
77715 Banking Law 6cp
77716 International Trade Law 6cp
77724 International Banking and Finance Law 6cp
77734 Law and Medicine 6cp
Research Paper 6cp
Negotiation 6cp
Advanced Mediation 6cp
International Commercial Arbitration 6cp
Commercial Arbitration (Domestic) 6cp
Family Dispute Resolution 6cp
Dispute Resolution in Commerce 6cp
Taxation Administration 6cp
International Commercial Dispute Resolution 6cp
Crisis Negotiation 6cp
International Environmental Law 6cp
Taxesation of Business Entities 6cp
Psychology and Dispute Resolution 6cp
Workplace Dispute Resolution 6cp
Designs Law and Practice 6cp
Patent Law 6cp
Goods and Services Tax 6cp
Securities Markets Law 6cp
Copyright Law 6cp
Superannuation and Retirement Planning 6cp
International Business Law 6cp
Current Issues in Taxation 6cp
International Taxation Law 6cp
World Trade Organisation Law and Practice 6cp
Law of the Sea 6cp
International Criminal Law 6cp
International Sale of Goods 6cp
Global Aspects of Intellectual Property Law 6cp
International Humanitarian Law 6cp
International Trade Law and the Environment 6cp
Business and Law in China 6cp
Mediation Practice 6cp
Dispute Resolution 6cp
STM01011 Research project (Law PG) 12cp
CBK90522 Electives (Legal Studies) 12cp
77889 Trade Marks Law 6cp
77890 Trade Marks Practice 6cp
78039 Wickedness and Vice 6cp
78040 The Law and Education 6cp
78042 Environmental Planning and Development Law 6cp
Jusprudence 6cp
Environmental Law 6cp
Industrial Law 6cp
Insolvency 6cp
Revenue Law 6cp
Banking and Finance Law 6cp
Securities Regulation 6cp
Financial Analysis for the Transactional Lawyer 6cp
International Regulation of Financial Institutions 6cp
Corporate Insolvency 6cp
Corporate Governance 6cp
Child Law in Australia 6cp
Complex Parenting Disputes (in Family Law) 6cp
Complex Financial and Property Disputes (in Family Law) 6cp
Current Issues in Family Law 6cp
Facilitation 6cp
International and Comparative Family Law 6cp
Contemporary Issues in Health Law 6cp
Dilemmas in Biomedical Law 6cp
Law and Mental Health 6cp
International Commercial Transactions 6cp
International Environmental Law: Policy and Implementation 6cp
Private International Law 6cp
Rights and Obligations in the International Legal System 6cp
Global Governance and Social Justice 6cp
Law and Regulation 6cp
Media and Entertainment Law and Regulation 6cp
Perspectives on Regulation 6cp
Regulatory Strategies and Compliance Principles 6cp
CBK90524 Teaching Discipline Contents
Free choice of electives.

CBK90525 Electives (TAFE articulation)
Free choice of electives.

CBK90526 Option (Law)
Select 6 credit points from the following options: 6cp

CBK90528 Electives
Select 24 credit points from the following options: 24cp

CBK90531 Computer Systems choice
Select 12 credit points from the following options: 12cp

CBK90532 Elective
Free choice of electives.

CBK90533 Electives (Environmental Biology)
Free choice of electives.

CBK90534 Electives (Medical Science)
Free choice of electives.

CBK90535 Electives
Select 24 credit points from the following options: 24cp
### CBK90536 Finance strand
Select 48 credit points from the following options: 48cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>25921</td>
<td>Theory of Financial Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>25922</td>
<td>Financial Econometrics</td>
<td>6cp</td>
</tr>
<tr>
<td>25924</td>
<td>Advanced Corporate Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>25923</td>
<td>Derivative Security Pricing</td>
<td>6cp</td>
</tr>
<tr>
<td>25728</td>
<td>Bond Portfolio Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25729</td>
<td>Applied Portfolio Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25984</td>
<td>Thesis in Finance and Economics (Honours)</td>
<td>12cp</td>
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Total 48cp

### CBK90537 Economics strand
Select 48 credit points from the following options: 48cp

<table>
<thead>
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<th>Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>02381</td>
<td>Special Education 1: Managing Challenging Behaviours</td>
<td>6cp</td>
</tr>
<tr>
<td>02382</td>
<td>Special Education 2: Managing Students with Moderate and High Support Needs</td>
<td>6cp</td>
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<tr>
<td>02383</td>
<td>Special Education 3: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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<tr>
<td>02384</td>
<td>Special Education 4: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
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<tr>
<td>02385</td>
<td>Special Education 5: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>02386</td>
<td>Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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</tbody>
</table>

Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>013005</td>
<td>92876 Therapeutic Interventions in Mental Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>013006</td>
<td>Educating Students with Special Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013007</td>
<td>The Psychology of Adolescent Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013008</td>
<td>92605 Therapeutic Interventions in Mental Health Care 2</td>
<td>6cp</td>
</tr>
<tr>
<td>013009</td>
<td>Child and Adolescent Mental Health Disorders</td>
<td>6cp</td>
</tr>
<tr>
<td>013010</td>
<td>92964 Professional Practice and Changing Work</td>
<td>6cp</td>
</tr>
<tr>
<td>013011</td>
<td>Independent Study Project 1</td>
<td>6cp</td>
</tr>
<tr>
<td>013012</td>
<td>Educational Management</td>
<td>6cp</td>
</tr>
<tr>
<td>013013</td>
<td>Aboriginal Social and Political History</td>
<td>6cp</td>
</tr>
<tr>
<td>013014</td>
<td>Introduction to Language</td>
<td>6cp</td>
</tr>
<tr>
<td>013015</td>
<td>Programming and Assessment in Language Literacy and Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013016</td>
<td>Professional Practice and Changing Work</td>
<td>6cp</td>
</tr>
<tr>
<td>013017</td>
<td>Teaching and Learning Literacy</td>
<td>6cp</td>
</tr>
<tr>
<td>013018</td>
<td>Work and People</td>
<td>6cp</td>
</tr>
<tr>
<td>013019</td>
<td>The Language Literacy and Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013020</td>
<td>Individual Difference and Vocational Education</td>
<td>6cp</td>
</tr>
<tr>
<td>013021</td>
<td>Language Teaching Methodology</td>
<td>6cp</td>
</tr>
<tr>
<td>013022</td>
<td>Communication and Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013023</td>
<td>Individual Communication in the Workplace</td>
<td>6cp</td>
</tr>
<tr>
<td>013024</td>
<td>Team Communication in the Workplace</td>
<td>6cp</td>
</tr>
<tr>
<td>013025</td>
<td>Using Information Technology for Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013026</td>
<td>Teaching and Learning Numeracy</td>
<td>6cp</td>
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<tr>
<td>013027</td>
<td>Organisational Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013028</td>
<td>Designing and Developing Simulations and Games</td>
<td>6cp</td>
</tr>
<tr>
<td>013029</td>
<td>Teaching and Learning Practice</td>
<td>6cp</td>
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<td>013030</td>
<td>Designing and Developing Simulations and Games</td>
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<tr>
<td>013031</td>
<td>Educational Leadership</td>
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Select 12 credit points from the following options: 12cp

Select 12 credit points from the following options: 12cp

Select 12 credit points from the following options: 12cp

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Select 12 credit points from the following options: 12cp

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Select 12 credit points from the following options: 12cp

Select 12 credit points from the following options: 12cp

Select 12 credit points from the following options: 12cp

Select 12 credit points from the following options: 12cp

Total 48cp

### CBK90545 Elective
Select 12 credit points from the following options: 12cp

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<tbody>
<tr>
<td>013100</td>
<td>023821 Special Education 1: Managing Challenging Behaviours</td>
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<tr>
<td>013101</td>
<td>Special Education 2: Managing Students with Moderate and High Support Needs</td>
<td>6cp</td>
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<tr>
<td>013102</td>
<td>Special Education 3: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>013103</td>
<td>Special Education 4: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013104</td>
<td>Special Education 5: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013105</td>
<td>Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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<tr>
<td>013106</td>
<td>023825 Special Education 5: Educating Students with Moderate and High Support Needs</td>
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<td>013107</td>
<td>023826 Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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<td>013108</td>
<td>023827 Special Education 7: Educating Students with Moderate and High Support Needs</td>
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<td>013109</td>
<td>023828 Special Education 8: Educating Students with Delayed or Disordered Communication</td>
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Total 48cp

### CBK90544 Elective
Select 12 credit points from the following options: 12cp

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<td>013000</td>
<td>023821 Special Education 1: Managing Challenging Behaviours</td>
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<tr>
<td>013001</td>
<td>Special Education 2: Managing Students with Moderate and High Support Needs</td>
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<tr>
<td>013002</td>
<td>Special Education 3: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>013003</td>
<td>Special Education 4: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
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<tr>
<td>013004</td>
<td>Special Education 5: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
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<tr>
<td>013005</td>
<td>Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>013006</td>
<td>Special Education 7: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013007</td>
<td>Special Education 8: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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Total 48cp

### CBK90546 Elective
Select 12 credit points from the following options: 12cp

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<th>Code</th>
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<tbody>
<tr>
<td>013000</td>
<td>023821 Special Education 1: Managing Challenging Behaviours</td>
<td>6cp</td>
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<tr>
<td>013001</td>
<td>Special Education 2: Managing Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013002</td>
<td>Special Education 3: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>013003</td>
<td>Special Education 4: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013004</td>
<td>Special Education 5: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013005</td>
<td>Special Education 6: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>013006</td>
<td>Special Education 7: Educating Students with Moderate and High Support Needs</td>
<td>6cp</td>
</tr>
<tr>
<td>013007</td>
<td>Special Education 8: Educating Students with Delayed or Disordered Communication</td>
<td>6cp</td>
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Total 48cp
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>24734</td>
<td>Marketing Management</td>
<td>6cp</td>
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<tr>
<td>21760</td>
<td>Performance and Talent Management</td>
<td>6cp</td>
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<tr>
<td>21766</td>
<td>Managing Community Organisations</td>
<td>6cp</td>
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<tr>
<td>21717</td>
<td>International Management</td>
<td>6cp</td>
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<tr>
<td>92926</td>
<td>Epidemiology and Population Health</td>
<td>6cp</td>
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<tr>
<td>92997</td>
<td>Health Systems and Change</td>
<td>6cp</td>
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<tr>
<td>92995</td>
<td>Advanced Health Services Planning</td>
<td>6cp</td>
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<tr>
<td>78104</td>
<td>Genetics and the Law</td>
<td>6cp</td>
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<tr>
<td>78150</td>
<td>Law and Mental Health</td>
<td>6cp</td>
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<tr>
<td>79708</td>
<td>Contemporary Business Law</td>
<td>6cp</td>
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<td>78146</td>
<td>Dilemmas in Biomedical Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78143</td>
<td>Psychology and Dispute Resolution</td>
<td>6cp</td>
</tr>
<tr>
<td>78144</td>
<td>Contemporary Issues in Health Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77734</td>
<td>Law and Medicine</td>
<td>6cp</td>
</tr>
<tr>
<td>92022</td>
<td>Improving Quality and Safety in Health Care</td>
<td>6cp</td>
</tr>
<tr>
<td>92612</td>
<td>Research in Health</td>
<td>6cp</td>
</tr>
<tr>
<td>78105</td>
<td>Genetics and the Law</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**CBK90545 Major choice**

Select 48 credit points from the following options:

- MAJ7055 48cp Applied Linguistics
- MAJ7056 48cp e-Learning
- STM9049 48cp No specified major

Total 48cp

**CBK90546 Options**

Select 12 credit points from the following options:

- 013098 12cp Independent Study Project 1
- 013137 6cp Educational Leadership
- 013107 6cp Phonology and Pronunciation
- 013097 6cp Discourse Analysis
- 013095 6cp Global Englishes
- 013132 6cp Technology Enhanced Language Learning
- 013141 6cp Language Programming and Assessment
- 013104 6cp Language and Power
- 013159 6cp Independent Study Project 2

Total 12cp

**CBK90547 Options**

Select 12 credit points from the following options:

- 013098 12cp Independent Study Project 1
- 013105 6cp Language Development
- 013132 6cp Technology Enhanced Language Learning
- 013159 6cp Independent Study Project 2
- 013121 6cp Theory and Practice of Teaching English to Speakers of other Languages
- 013141 6cp Language Programming and Assessment
- 013104 6cp Language and Power
- 013117 6cp Theory and Practice of Literacy
- 013135 6cp Language Development

Total 12cp

**CBK90548 Options**

Select 12 credit points from the following options:

- 013106 12cp Mentoring in the Workplace
- 013123 6cp Work and Learning
- 013098 6cp Independent Study Project 1
- 013113 6cp Skill Learning and the Development of Expertise
- 013095 6cp Global Englishes
- 013112 6cp Research Design
- 013117 6cp Theory and Practice of Literacy
- 013112 6cp Understanding Adult Education and Training
- 013121 6cp Theory and Practice of Teaching English to Speakers of other Languages
- 013117 6cp Theory and Practice of Literacy
- 013105 6cp Language Development

Total 12cp
CBK90550 Options (Human Resource Development major)
Select 36 credit points from the following options: 36cp
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013118 Teaching and Learning Literacy 6cp
013102 Introduction to Language 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013971 Teaching and Learning Numeracy 6cp
013958 Language Teaching Methodology 6cp
013151 Project Management 6cp
013124 Work and People 6cp
013963 Cultural Diversity at Work 6cp
013967 e-Learning Design 6cp
013099 Individualised Project 1 6cp
013088 Educational Management 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
010140 Exchange Elective 1 (Education) 6cp
010141 Exchange Elective 2 (Education) 6cp
010142 Exchange Elective 3 (Education) 6cp
010143 Exchange Elective 4 (Education) 6cp
013972 Organisational Learning 6cp
013055 Organisational Workplace Learning 6cp
Total 36cp

CBK90551 Options (Language, Literacy and Numeracy major)
Select 36 credit points from the following options: 36cp
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013118 Teaching and Learning Literacy 6cp
013102 Introduction to Language 6cp
013971 Teaching and Learning Numeracy 6cp
013958 Language Teaching Methodology 6cp
013151 Project Management 6cp
013124 Work and People 6cp
013963 Cultural Diversity at Work 6cp
013967 e-Learning Design 6cp
013099 Individualised Project 1 6cp
013088 Educational Management 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
010140 Exchange Elective 1 (Education) 6cp
010141 Exchange Elective 2 (Education) 6cp
010142 Exchange Elective 3 (Education) 6cp
010143 Exchange Elective 4 (Education) 6cp
013972 Organisational Learning 6cp
013055 Organisational Workplace Learning 6cp
Total 36cp

CBK90552 Options (Vocational Education major)
Select 48 credit points from the following options: 48cp
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013958 Language Teaching Methodology 6cp
013124 Work and People 6cp
013963 Cultural Diversity at Work 6cp
013967 e-Learning Design 6cp
013099 Individualised Project 1 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013151 Project Management 6cp
013097 Human Resource Development in Organisations 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013972 Organisational Learning 6cp
013976 Strategic Human Resource Development 6cp
013102 Introduction to Language 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013971 Teaching and Learning Numeracy 6cp
013149 The Language Literacy and Numeracy Learner 6cp
010140 Exchange Elective 1 (Education) 6cp
010141 Exchange Elective 2 (Education) 6cp
010142 Exchange Elective 3 (Education) 6cp
010143 Exchange Elective 4 (Education) 6cp
Total 48cp

CBK90553 Options
Select 12 credit points from the following options: 12cp
013088 Educational Management 6cp
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013102 Introduction to Language 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013972 Organisational Learning 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013977 Teaching and Learning in Practice 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
013982 Aboriginal Cultures 6cp
013117 Theory and Practice of Literacy 6cp
013102 Introduction to Language 6cp
013099 Individualised Project 1 6cp
013124 Work and People 6cp
013977 Teaching and Learning in Practice 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
013149 The Language Literacy and Numeracy Learner 6cp
013982 Aboriginal Cultures 6cp
010140 Exchange Elective 1 (Education) 6cp
010141 Exchange Elective 2 (Education) 6cp
010142 Exchange Elective 3 (Education) 6cp
010143 Exchange Elective 4 (Education) 6cp
Total 12cp

CBK90554 Options (Management)
Select 24 credit points from the following options: 24cp
21221 Organisational Structure and Change 6cp
21226 Sustainable Enterprise 6cp
21591 Transnational Management 6cp
21630 Global Strategic Management 6cp
Total 24cp

CBK90557 Major choice
Select 48 credit points from the following options: 48cp
MAJ07067 Adult Education 48cp
STM90492 No specified major 48cp
MAJ07072 Indigenous Studies 48cp
MAJ07076 Organisational and Workplace Learning 48cp
MAJ07077 Popular Education and Social Change 48cp
Total 48cp

CBK90558 Options
Select 30 credit points from the following options: 30cp
013096 Grammar and the Construction of Meaning 6cp
013107 Phonology and Pronunciation 6cp
013087 Discourse Analysis 6cp
013104 Language and Power 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
013117 Theory and Practice of Literacy 6cp
013105 Language Development 6cp
013090 e-Learning Design 6cp
013091 e-Learning Experiences 1 6cp
013092 e-Learning Experiences 2 6cp
013093 e-Learning Technologies 6cp
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>013087</td>
<td>Discourse Analysis</td>
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<td>013095</td>
<td>Global Englishes</td>
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<tr>
<td>013098</td>
<td>Independent Study Project 1</td>
<td>6cp</td>
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<tr>
<td>013106</td>
<td>Mentoring in the Workplace</td>
<td>6cp</td>
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<tr>
<td>013112</td>
<td>Research Design</td>
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<tr>
<td>013113</td>
<td>Skill Learning and the Development of Expertise</td>
<td>6cp</td>
</tr>
<tr>
<td>013120</td>
<td>The Psychology of Adult Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013123</td>
<td>Work and Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013125</td>
<td>Adult Education: History, Policy and Context</td>
<td>6cp</td>
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<tr>
<td>013127</td>
<td>Communication Management</td>
<td>6cp</td>
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<tr>
<td>013128</td>
<td>Learning and Change in Organisations</td>
<td>6cp</td>
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<tr>
<td>013129</td>
<td>Effective Cognitive Learning Strategies</td>
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<tr>
<td>013130</td>
<td>Education for Social Change 1</td>
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<td>013131</td>
<td>Education for Social Change 2</td>
<td>6cp</td>
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<td>013132</td>
<td>Technology Enhanced Language Learning</td>
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<tr>
<td>013133</td>
<td>Individual Instruction for Diverse Learners</td>
<td>6cp</td>
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<td>013134</td>
<td>Changing Practices Research Seminar</td>
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<tr>
<td>013135</td>
<td>Literary Theory and Education</td>
<td>6cp</td>
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<tr>
<td>013136</td>
<td>Developing People and Teams</td>
<td>6cp</td>
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<tr>
<td>013137</td>
<td>Educational Leadership</td>
<td>6cp</td>
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<td>013138</td>
<td>Teaching and Learning in Higher Education</td>
<td>6cp</td>
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<td>013139</td>
<td>Assessing Learning</td>
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<td>Simulation and Games</td>
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<td>013141</td>
<td>Language Programming and Assessment</td>
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<tr>
<td>013142</td>
<td>Adult Learning and Program Development</td>
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<td>013143</td>
<td>Designs for Learning Research Seminar</td>
<td>6cp</td>
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<td>013144</td>
<td>Learning and the Family</td>
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<tr>
<td>013145</td>
<td>Culture, Difference and Curriculum</td>
<td>6cp</td>
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<td>013146</td>
<td>Using Film for Critical Pedagogy</td>
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<td>013147</td>
<td>Human Resources and Organisational Development</td>
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<td>013148</td>
<td>Understanding Adult Education and Training</td>
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<td>013149</td>
<td>Professional Learning and Practice</td>
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<tr>
<td>013150</td>
<td>Organisational Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013151</td>
<td>Popular Education and Social Movements</td>
<td>6cp</td>
</tr>
<tr>
<td>013152</td>
<td>Organisational Learning</td>
<td>6cp</td>
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<tr>
<td>013153</td>
<td>Narrate and Storymaking in Education and Change</td>
<td>6cp</td>
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<tr>
<td>013154</td>
<td>Leading Learning in the Workplace</td>
<td>6cp</td>
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<tr>
<td>013155</td>
<td>Education in Policy Contexts</td>
<td>6cp</td>
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<tr>
<td>013156</td>
<td>Contemporary Work and Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013157</td>
<td>Adult Education: Past, Present, Future</td>
<td>6cp</td>
</tr>
<tr>
<td>013158</td>
<td>New Media and Social Change</td>
<td>6cp</td>
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</table>

**CBK90560 Development Assessment core choice**
Select 12 credit points from the following options: 12cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>15612</td>
<td>Building Regulation</td>
<td>6cp</td>
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<tr>
<td>15613</td>
<td>Development Control</td>
<td>6cp</td>
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<tr>
<td>15614</td>
<td>Advanced Development Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>15615</td>
<td>Advanced Building Regulation</td>
<td>6cp</td>
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Total 12cp

**CBK90561 Development Assessment elective choice**
Select 12 credit points from the following options: 12cp

**CBK90562 Electives**
Select 8 credit points from the following options: 8cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>57008</td>
<td>Digital Libraries and Collections</td>
<td>8cp</td>
</tr>
<tr>
<td>57103</td>
<td>Knowledge Management Strategies</td>
<td>8cp</td>
</tr>
<tr>
<td>57147</td>
<td>Enterprise Content Management</td>
<td>8cp</td>
</tr>
<tr>
<td>57152</td>
<td>Investigative Research in the Digital Environment</td>
<td>8cp</td>
</tr>
<tr>
<td>57153</td>
<td>Digital Curation</td>
<td>8cp</td>
</tr>
<tr>
<td>57181</td>
<td>Recordkeeping Fundamentals</td>
<td>8cp</td>
</tr>
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</table>

Total 8cp

**CBK90563 Master’s option (Information Management)**
Select 16 credit points from the following options: 16cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>57104</td>
<td>Information and Knowledge Management Project Part A</td>
<td>4cp</td>
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<tr>
<td>57105</td>
<td>Information and Knowledge Management Project Part B</td>
<td>12cp</td>
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<tr>
<td>57009</td>
<td>Information and Knowledge Management Project</td>
<td>16cp</td>
</tr>
<tr>
<td>STMP0653</td>
<td>Master’s option without project</td>
<td>16cp</td>
</tr>
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</table>

Total 16cp

**CBK90564 Electives**
Select 8 credit points from the following options: 8cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>57008</td>
<td>Digital Libraries and Collections</td>
<td>8cp</td>
</tr>
<tr>
<td>57084</td>
<td>Information Architecture and Design</td>
<td>8cp</td>
</tr>
<tr>
<td>57146</td>
<td>Organising Information</td>
<td>8cp</td>
</tr>
<tr>
<td>57147</td>
<td>Enterprise Content Management</td>
<td>8cp</td>
</tr>
<tr>
<td>57148</td>
<td>Discovering and Accessing Information</td>
<td>8cp</td>
</tr>
<tr>
<td>57152</td>
<td>Investigative Research in the Digital Environment</td>
<td>8cp</td>
</tr>
<tr>
<td>57153</td>
<td>Digital Curation</td>
<td>8cp</td>
</tr>
<tr>
<td>57181</td>
<td>Recordkeeping Fundamentals</td>
<td>8cp</td>
</tr>
</tbody>
</table>

Total 8cp
CBK90565 Master’s option (Knowledge Management)
Select 16 credit points from the following options:

- Information and Knowledge Management Project Part A 4cp
- Information and Knowledge Management Project Part B 12cp
- Information and Knowledge Management Project 16cp
STM90654 Master's option without project 16cp

Total 16cp

CBK90566 Major choice
Select 48 credit points from the following options:

- MAJ01019 Communication 48cp
- MAJ02041 Information Technology 48cp
- MAJ08966 Management Studies 48cp
- MAJ08965 Business Studies 48cp
- MAJ09395 Legal Studies 48cp

Total 48cp

CBK90567 Sub-majors + electives
Select 48 credit points from the following options:

- SMJ09035 Language other than English 24cp
- SMJ09036 Specialist Country Studies 24cp
- STM00698 Exchange electives 24cp
- SMJ09050 Environmental Studies 24cp
- SMJ09048 Transnational Studies 24cp
- SMJ09051 Bodies, Genders, Rights 24cp
- SMJ10032 Media Studies 24cp
- SMJ10033 Screen Studies 24cp
- SMJ09049 Reading Australia 24cp
- CBK90834 Electives 24cp
- SMJ10040 Communication 24cp
- SMJ09052 Aboriginal Studies 24cp

Total 48cp

CBK90569 Chinese Language and Culture choice
Select 8 credit points from the following options:

- Chinese Language and Culture 1 8cp
- Chinese Language and Culture 2 8cp
- Chinese Language and Culture 3 8cp
- Chinese Language and Culture 4 8cp
- Chinese Language and Culture 5 8cp
- Chinese Language and Culture 6 8cp
- Chinese Festivals and Ceremonies 8cp
- Chinese Film 8cp
- Chinese Mass Media 8cp
- Twentieth Century Chinese Fiction 8cp

Total 8cp

CBK90570 Business electives (China Studies)
Select 24 credit points from the following options:

- Transnational Management 6cp
- Global Strategic Management 6cp
- International Management 6cp
- Global Strategic Management 6cp
- International Financial Management 6cp

Total 24cp

CBK90571 Electives
Select 24 credit points from the following options:

- Data Mining Algorithms 6cp
- Project 6cp
- Digital Multimedia 6cp
- IT Operations Management 6cp
- Enterprise Development with .NET 6cp
- 3D Computer Animation 6cp
- Advanced Internet Programming 6cp
- Analytics Capstone Project B 6cp
- Network Design 6cp
- Computer Graphics Project 6cp
- Computer Graphics Rendering Techniques 6cp
- Introduction to Data Analytics 6cp
- Data Structures and Algorithms 6cp
- Network Security 6cp
- Database Programming 6cp
- e-Commerce 6cp
- Finance and IT 6cp
- Image Processing and Pattern Recognition 6cp

Total 24cp

CBK90572 Major choice (Applied Chemistry)
Select 96 credit points from the following options:

- MAJ01010 Applied Chemistry 96cp
- MAJ01129 Chemical Science 96cp

Total 96cp

CBK90573 Major choice (Biomedical Biotechnology)
Select 96 credit points from the following options:

- MAJ01103 Biotechnology 96cp
- MAJ01104 Biomedical Science 96cp
- MAJ01105 Medical Science 96cp
- MAJ01127 Medical and Molecular Biosciences 96cp

Total 96cp
CBK90574 Major choice (Mathematical Sciences)
Select 96 credit points from the following options:
MAJ01110 Mathematics 96cp
MAJ01111 Statistics 96cp
Total 96cp

CBK90575 Sub-major/Electives
Select 24 credit points from the following options:
SMJ08030 Nanotechnology 24cp
SMJ08031 Statistics (Physics Sciences) 24cp
SMJ02054 Scientific Computing 24cp
SMJ02056 Operations Theory and Management 24cp
Total 24cp

CBK90576 Sub-major/Electives (Chemistry)
Select 24 credit points from the following options:
SMJ01032 Electives (Science UG) 24cp
SMJ01031 Statistics (Physics Sciences) 24cp
SMJ02054 Scientific Computing 24cp
SMJ02056 Operations Theory and Management 24cp
Total 24cp

CBK90577 Sub-major/Electives (Environmental Science)
Select 24 credit points from the following options:
SMJ08181 Introductory Haematology and Immunology 24cp
SMJ08182 Electives (Science UG) 24cp
SMJ08183 Quantitative Methods 24cp
SMJ08184 Quantitative Management 24cp
SMJ08185 Marketing Principles 24cp
SMJ08186 International Management 24cp
SMJ08187 Advertising Principles 24cp
Total 24cp

CBK90579 Elective 1
Free choice of electives.

CBK90580 Elective 2
Free choice of electives.

CBK90581 Elective 3
Free choice of electives.

CBK90582 Elective 4
Free choice of electives.

CBK90584 Medical and Molecular Biology choice
Select 18 credit points from the following options:
91326 Analytical Biochemistry 6cp
91330 Epidemiology and Public Health 6cp
91401 Introductory Haematology and Immunology 6cp
CBK90581 Elective 3 6cp
Total 18cp

CBK90585 Major choice (Science)
Select 96 credit points from the following options:
MAJ01079 Applied Chemistry 96cp
MAJ01080 Applied Physics 96cp
MAJ01081 Biomedical Science 96cp
MAJ01082 Environmental Biology 96cp
MAJ01085 Nanotechnology 96cp
MAJ01112 Marine Biology 96cp
MAJ01113 Environmental Forensics 96cp
MAJ01114 Medical Science 96cp
MAJ01115 Biotechnology 96cp
MAJ01116 Mathematics 96cp
Total 96cp

CBK90586 Major choice (Science)
Select 78 credit points from the following options:
MAJ01087 Applied Chemistry 78cp
MAJ01088 Applied Physics 78cp
MAJ01089 Environmental Science 78cp
MAJ01090 Biomedical Science 78cp
MAJ01091 Nanotechnology 78cp
MAJ01095 Mathematics 78cp
MAJ01119 Biotechnology 78cp
MAJ01120 Medical Science 78cp
Total 78cp

CBK90588 Options
Select 18 credit points from the following options:
77746 Advanced Mediation 6cp
77945 Current Issues in Taxation 6cp
77715 Banking Law 6cp
78026 Business and Law in China 6cp
77752 Commercial Arbitration (Domestic) 6cp
70327 Commercial Law 6cp
77903 Copyright Law 6cp
77893 Designs Law and Practice 6cp
77761 Dispute Resolution in Commerce 6cp
77721 Dispute Resolution 6cp
77704 European Union Law 6cp
77017 Evidence and Criminal Procedure 6cp
77760 Family Dispute Resolution 6cp
78015 Global Aspects of Intellectual Property Law 6cp
77900 Goods and Services Tax 6cp
77701 International Economic Law (PG) 6cp
77716 International Trade Law 6cp
77724 International Banking and Finance Law 6cp
77751 International Commercial Arbitration 6cp
77783 International Commercial Dispute Resolution 6cp
77794 International Environmental Law 6cp
77935 International Business Law 6cp
77953 International Taxation Law 6cp
78010 International Criminal Law 6cp
78011 International Sale of Goods 6cp
78016 International Humanitarian Law 6cp
78023 International Trade Law and the Environment 6cp
77976 World Trade Organisation Law and Practice 6cp
77734 Law and Medicine 6cp
78008 Law of the Sea 6cp
78029 Mediation Practice 6cp
77745 Negotiation 6cp
77792 Crisis Negotiation 6cp
77898 Patent Law 6cp
77850 Psychology and Dispute Resolution 6cp
77740 Research Paper 6cp
77791 Securities Markets Law 6cp
77767 Taxation Administration 6cp
77796 Taxation of Business Entities 6cp
77924 Superannuation and Retirement Planning 6cp
77889 Trade Marks Law 6cp
77890 Trade Marks Practice 6cp
77867 Workplace Dispute Resolution 6cp
78001 Law and Dispute Resolution 6cp
78011 The Law and Education 6cp
78041 New Families, New Technologies 6cp
78042 Environmental Planning and Development Law 6cp
77608 Jurisprudence 6cp
78024 Environmental Law 6cp
78053 Industrial Law 6cp
76115 Insolvency 6cp
76212 Revenue Law 6cp
78111 Banking and Finance Law 6cp
78113 Securities Regulation 6cp
78115 Financial Analysis for the Transactional Lawyer 6cp
78116 International Regulation of Financial Institutions 6cp
78122 Corporate Insolvency 6cp
78126 Corporate Governance 6cp
78129 Child Law in Australia 6cp
CBK90591 Options/PLT
Select 24 credit points from the following options: 24cp

CBK90592 Options
Select 18 credit points from the following options: 18cp

CBK90598 Electives
Select 24 credit points from the following options: 24cp
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<th>Course Title</th>
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<td>Intellectual Property and Traditional Knowledge</td>
<td>6cp</td>
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<tr>
<td>77794</td>
<td>International Environmental Law</td>
<td>6cp</td>
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<tr>
<td>76005</td>
<td>Islamic Law</td>
<td>6cp</td>
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<tr>
<td>76039</td>
<td>Jessup International Moot</td>
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<tr>
<td>76008</td>
<td>Jurisprudence</td>
<td>6cp</td>
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<tr>
<td>76015</td>
<td>Labour Law</td>
<td>6cp</td>
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<tr>
<td>76445</td>
<td>Medicine and Law</td>
<td>6cp</td>
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<td>78008</td>
<td>Law of the Sea</td>
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<td>76063</td>
<td>Media Law</td>
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<td>76900</td>
<td>Moot</td>
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<td>Research Thesis</td>
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<td>Competition Law</td>
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<td>77704</td>
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<td>Banking Law</td>
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<td>77901</td>
<td>Securities Markets Law</td>
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<td>78025</td>
<td>Intellectual Property: Law and Policy</td>
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<td>78040</td>
<td>The Law and Education</td>
<td>6cp</td>
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<td>76081</td>
<td>Gender, Law and Sexuality</td>
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<td>76042</td>
<td>Environmental Planning and Development Law</td>
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<td>76882</td>
<td>International Regulation of Financial Institutions</td>
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<td>76037</td>
<td>Advanced Criminal Law</td>
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<td>Wickedness and Vice</td>
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<td>76019</td>
<td>Broadcasting and Telecommunications Regulation</td>
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<td>Introduction to Chinese Business Law</td>
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<td>Comparative Law</td>
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<td>Conflict of Laws</td>
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<td>Disability and the Law</td>
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<td>Advanced Remedies</td>
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<td>Refugee Law and Practice</td>
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<td>International Organisations</td>
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<td>International Commercial Transactions</td>
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<td>International Trade Law and the Environment</td>
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<td>Law of Slavery and Human Trafficking</td>
<td>6cp</td>
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<tr>
<td>76033</td>
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**Total 18cp**

**CBK90593 Options**

Select 6 credit points from the following options: 6cp

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91326 Analytical Biochemistry
91330 Epidemiology and Public Health
91401 Introductory Haematology and Immunology
Total 12cp

Select 6 credit points from the following options: 6cp
CBK90596 Humanities electives (China Studies)
57025 Intercultural and International Communication
57026 Strategic Communication and Negotiation
CBK90494 Chinese Language and Culture
Total 24cp

Select 36 credit points from the following options: 36cp
CBK90597 Level 2 subject choice (Life and Environmental Sciences)
66513 Marine Geosciences
91120 GIS and Remote Sensing
91121 Aquatic Ecology
91126 Coral Reef Ecosystems
91129 Transfusion Science
91155 Stream and Lake Assessment
91156 Marine Primary Producers
91309 Biodiversity Conservation
91335 Molecular Biology 2
91338 Clinical Bacteriology
91344 Medical and Diagnostic Biochemistry
91345 Biotechnology, Genes and Disease
91352 Parasitology
91358 Advanced Haematology
91359 Advanced Immunology
91368 Bioreactors and Bioprocessing
91369 Biobusiness and Environmental Biotechnology
91370 Semi-arid Ecology
91371 Forest and Mountain Ecology
91402 Anatomical Pathology
91706 Neuroscience
91707 Pharmacology 1
91708 Medical and Applied Physiology
91709 Pharmacology 2
91145 Environmental Protection and Management
91163 Alpine and Lowland Ecology
Total 36cp

Select 12 credit points from the following options: 12cp
91338 Clinical Bacteriology
91339 Advanced Haematology
91344 Medical and Diagnostic Biochemistry
91359 Advanced Immunology
Total 12cp

Select 24 credit points from the following options: 24cp
CBK90596 Electives A (Biomedical Science)
57025 Intercultural and International Communication
57026 Strategic Communication and Negotiation
CBK90487 Chinese Language and Culture
CBK90494 Chinese Language and Culture
Total 24cp

Select 24 credit points from the following options: 24cp
CBK90596 Electives A (Biomedical Science)
57025 Intercultural and International Communication
57026 Strategic Communication and Negotiation
CBK90487 Chinese Language and Culture
CBK90494 Chinese Language and Culture
Total 24cp

Choose 36 credit points from the following options: 36cp
CBK9059 Level 3 subject choice (Life and Environmental Sciences)
66513 Marine Geosciences
91120 GIS and Remote Sensing
91121 Aquatic Ecology
91126 Coral Reef Ecosystems
91129 Transfusion Science
91155 Stream and Lake Assessment
91156 Marine Primary Producers
91309 Biodiversity Conservation
91335 Molecular Biology 2
91338 Clinical Bacteriology
91344 Medical and Diagnostic Biochemistry
91345 Biotechnology, Genes and Disease
91352 Parasitology
91358 Advanced Haematology
91359 Advanced Immunology
91368 Bioreactors and Bioprocessing
91369 Biobusiness and Environmental Biotechnology
91370 Semi-arid Ecology
91371 Forest and Mountain Ecology
91402 Anatomical Pathology
91706 Neuroscience
91707 Pharmacology 1
91708 Medical and Applied Physiology
91709 Pharmacology 2
91145 Environmental Protection and Management
91163 Alpine and Lowland Ecology
Total 36cp
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<tr>
<td>013162</td>
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<tr>
<td>013163</td>
<td>e-Learning Experiences</td>
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<td>013174</td>
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<td>013176</td>
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<tr>
<td>013177</td>
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**CBK90602 Vocational and Workplace Learning**

Select 24 credit points from the following options: 24cp

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<td>013120</td>
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<td>Work and People</td>
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<td>013130</td>
<td>Issues in Aboriginal Education</td>
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<td>Initiatives in Aboriginal Education</td>
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<td>Individual Difference and Vocational Education Teaching</td>
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<td>6cp</td>
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Select 24 credit points from the following options: 
15315 Project Management Principles 6cp
15313 Project Procurement and Risk Management 6cp
15316 Project Time, Cost and Quality Management 6cp
15312 Communication and Critical Thinking 6cp
Total 24cp

CBK90604 PM choice 2
Select 24 credit points from the following options: 
15315 Project Management Principles 6cp
15313 Project Procurement and Risk Management 6cp
15316 Project Time, Cost and Quality Management 6cp
15312 Communication and Critical Thinking 6cp
15334 Nonlinear Methods in Quantitative Management 6cp
15331 Seminar (Mathematics) 6cp
15330 Seminar (Statistics) 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
68415 Measurement and Analysis of Physical Processes 6cp
35252 Mathematical Statistics 6cp
Total 36cp

CBK90606 Level 2 subject choice (Physical Sciences)
Select 36 credit points from the following options: 
91161 Cell Biology and Genetics 6cp
91107 The Biosphere 6cp
91123 Biocomplexity 6cp
91400 Human Anatomy and Physiology 6cp
33360 Mathematics for Physical Science 6cp
65307 Physical Chemistry 1 6cp
68075 Nanomaterials 6cp
91140 BioNanotechnology 6cp
68413 Quantum Physics 6cp
68315 Imaging Science 6cp
35140 Introduction to Quantitative Management 6cp
35101 Introduction to Linear Dynamical Systems 6cp
35151 Introduction to Statistics 6cp
35150 Introduction to Sample Surveys 6cp
35102 Introduction to Analysis and Multivariable Calculus 6cp
35111 Applications of Discrete Mathematics 6cp
68412 Energy Science and Technology 6cp
65202 Organic Chemistry 1 6cp
65410 Chemical Safety and Legislation 6cp
65508 Organic Chemistry 2 6cp
65411 Inorganic Chemistry 1 6cp
65306 Analytical Chemistry 1 6cp
Total 36cp

CBK90607 Level 3 subject choice (Physical Sciences)
Select 36 credit points from the following options: 
68316 Applied Electronics and Interfacing 6cp
67509 Molecular Nanotechnology 6cp
68606 Solid-state Science and Nanodevices 6cp
67510 Surface Processes 6cp
68513 Optics and Nanophotonics 6cp
68320 Scanning Probe and Electron Microscopy 6cp
65409 Analytical Chemistry 2 6cp
65509 Inorganic Chemistry 2 6cp
67305 Polymer Science 6cp
65606 Analytical Chemistry 3 6cp
65607 Physical Chemistry 2 6cp
67510 Surface Processes 6cp
35356 Design and Analysis of Experiments 6cp
35383 High Performance Computing 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35391 Seminar (Mathematics) 6cp
35393 Seminar (Statistics) 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
68415 Measurement and Analysis of Physical Processes 6cp
35252 Mathematical Statistics 6cp
Total 36cp

CBK90609 Civil and Structural Engineering
Select 24 credit points from the following options: 
49002 Managing Projects 6cp
49102 Traffic and Transportation 6cp
49105 Water Supply and Wastewater Management 6cp
49106 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49115 Facade Engineering 6cp
49121 Environmental Assessment and Planning 6cp
49126 Environmental Management of Land 6cp
49131 Bridge Design 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49144 Civil Engineering Review 2 6cp
49151 Concrete Technology and Practice 6cp
Total 24cp

CBK90610 Elective
Free choice of electives.

CBK90612 Electives
Free choice of electives.

CBK90613 Major choice
Select 42 credit points from the following options: 
MAJ08958 Tourism Management 42cp
MAJ08959 Arts Management 42cp
MAJ08960 Sport Management 42cp
MAJ08961 Event Management 42cp
Total 42cp

CBK90614 Stream choice
Free choice of electives.

CBK90615 Sub-major/Electives (Engineering)
Select 24 credit points from the following options: 
STM90700 Electronics thread 18cp
STM90701 Embedded Systems thread 18cp
STM90702 Energy thread 18cp
STM90703 Power Systems thread 18cp
Total 24cp

CBK90616 Electives
Free choice of electives.

CBK90617 Electives
Free choice of electives.

CBK90618 Thread choice
Select 54 credit points from the following options: 
STM90699 Control thread 54cp
STM90700 Electronics thread 54cp
STM90701 Embedded Systems thread 54cp
STM90702 Energy thread 54cp
STM90703 Power Systems thread 54cp
Total 54cp
CBK90619 Elective thread
Select 18 credit points from the following options: 18cp
- 48560 Introductory Control 6cp
- 48580 Advanced Control 6cp
- 49274 Advanced Robotics 6cp
- 48570 Data Acquisition and Distribution 6cp
- 48581 Digital Electronics 6cp
- 48550 Analog Electronics 6cp
- 48451 Advanced Digital Systems 6cp
- 48434 Embedded Software 6cp
- 48450 Real-time Operating Systems 6cp
- 48571 Electrical Machines 6cp
- 48561 Power Electronics and Drives 6cp
- 48550 Renewable Energy Systems 6cp
- 48572 Power Circuit Theory 6cp
- 48582 Power Systems Analysis and Design 6cp
- 48583 Power Systems Operation and Protection 6cp
Total 18cp

CBK90620 Thread choice
Select 36 credit points from the following options: 36cp
- STM90699 Control thread 18cp
- STM90700 Electronics thread 18cp
- STM90701 Embedded Systems thread 18cp
- STM90702 Energy thread 18cp
- STM90703 Power Systems thread 18cp
Total 36cp

CBK90621 Sub-major/Electives
Select 24 credit points from the following options: 24cp
- SMJ03033 Advanced Mechanical Analysis 24cp
- SMJ03034 Sustainable Energy Systems Analysis 24cp
- SMJ03035 Automation 24cp
- SMJ03036 Advanced Manufacturing Systems 24cp
- SMJ03037 Automotive Systems 24cp
- CBK90011 Electives 24cp
Total 24cp

CBK90622 Property options (PG)
Select 24 credit points from the following options: 24cp
- 12515 Strategic Asset Management 6cp
- 15241 Urban Economics and Finance 6cp
- 171200 Conservation and Heritage 6cp
- 17551 Property Market and Risk Analysis 6cp
- 17703 Property Taxation 6cp
- 17772 Commercial Retail Property Management 6cp
- 15321 Workplace Ecology 6cp
- 15322 Engineering Services and Systems 6cp
- 15313 Project Procurement and Risk Management 6cp
- 15324 Facility Obsolescence 6cp
- 15312 Communication and Critical Thinking 6cp
- 15222 Urban Design 6cp
- 15145 Development Negotiation 6cp
- 15301 Planning Theory and Decision Making 6cp
- 15315 Project Management Principles 6cp
- 17774 Green Building Evaluation 6cp
- 17553 Construction Cost Planning 6cp
- 15316 Project Time, Cost and Quality Management 6cp
- 17123 Construction Contracts and Finance 6cp
- 15251 Spatial Analysis in Planning and Property 6cp
- 17775 Land Acquisition Statutory Valuation and Litigation 6cp
- 12535 Valuation Application 6cp
Total 24cp

CBK90623 Advanced Architecture
Free choice of electives.

CBK90624 Advanced Architecture Studio
Select 42 credit points from the following options: 42cp
- STM90518 Urban Design 42cp
- STM90519 Design Technologies 42cp
Total 42cp

CBK90625 Architectural Design
Free choice of electives.

CBK90626 Architectural Practice
Select 12 credit points from the following options: 12cp
- 11501 Architectural Practice: Advocacy 6cp
- 11502 Architectural Practice: Finance and Project Management 6cp
- 11503 Architectural Practice: The Profession 6cp
- 11504 Architectural Practice: The City 6cp
Total 12cp

CBK90627 Architectural Design
Free choice of electives.

CBK90628 Electives
Select 6 credit points from the following options: 6cp
- 11312 Modern Western Aesthetics 6cp
- 11361 Special Project (Theory) 6cp
- 11308 Reading and Writing Architectural Criticism 6cp
Total 6cp

CBK90629 Sub-major/Electives
Select 24 credit points from the following options: 24cp
- CBK90011 Electives 24cp
- SMJ03058 Intelligent Systems 24cp
- SMJ03059 Sustainable Energy Systems 24cp
- SMJ03060 Manufacturing Automation 24cp
Total 24cp

CBK90630 Electives
Free choice of electives.

CBK90631 Architectural Practice
Select 12 credit points from the following options: 12cp
- 11501 Architectural Practice: Advocacy 6cp
- 11502 Architectural Practice: Finance and Project Management 6cp
- 11503 Architectural Practice: The Profession 6cp
- 11504 Architectural Practice: The City 6cp
Total 12cp

CBK90632 Options
Select 18 credit points from the following options: 18cp
- 013098 Independent Study Project 1 6cp
- 013137 Educational Leadership 6cp
- 013107 Phonology and Pronunciation 6cp
- 013087 Discourse Analysis 6cp
- 013095 Global Englishes 6cp
- 013132 Technology Enhanced Language Learning 6cp
- 013141 Language Programming and Assessment 6cp
- 013104 Language and Power 6cp
- 013159 Independent Study Project 2 6cp
- 013951 Learning and Change 6cp
- 013112 Research Design 6cp
- 010039 Teaching English for Academic Purposes 6cp
Total 18cp

CBK90633 Options
Select 30 credit points from the following options: 30cp
- 15602 Social Planning and Development 6cp
- 15603 Integrated Strategic Planning 6cp
- 15609 Local Environmental Management 6cp
- 15610 Local Government Leadership: Personal and Professional Skills 6cp
- 15606 Vocational Competencies 1 6cp
- 15607 Vocational Competencies 2 6cp
- 15618 New Perspectives in Local Government Leadership 6cp
Total 30cp

CBK90634 Electives
Select 24 credit points from the following options: 24cp
- 97101 Chinese Language and Culture 1 8cp
- 97102 Chinese Language and Culture 2 8cp
- 97103 Chinese Language and Culture 3 8cp
- 97104 Chinese Language and Culture 4 8cp
- 97105 Chinese Language and Culture 5 8cp
CBK90635 Marketing streams
Select 24 credit points from the following options:  

- Strategic Services Marketing 6cp
- Strategic Business Marketing 6cp
- Marketing Channel Management 6cp
- Marketing Communications 6cp
- Strategic International Marketing 6cp
- New Product Management 6cp
- Marketing Analytics 6cp
- Research Methodology and Data Analysis Tools 6cp
- Readings in Marketing 6cp
- Pricing and Revenue Management 6cp
- Research Design and Data Collection Tools 6cp

Total 24cp

CBK90636 Elective (Marketing PG)
Select 18 credit points from the following options:  

- Technology Research Methods 6cp
- Reflective Practice in Information Technology 6cp

Total 18cp

CBK90638 Research/Practice choice
In this choice block, students have the option of focusing their studies towards research or towards professional practice. Students who are intending to pursue a professional career in industry should choose 32572 Reflective Practice in Information Technology. Students intending to pursue a research or academic career should choose 32931 Information Technology Research Methods, followed by a research project (32933 or 32934) in a later semester.

Students pursuing the research option must identify a suitable project topic and an academic staff member who will be their supervisor for both 32931 and their subsequent research project, and need to provide this information in order to be granted permission to enrol.

Completion requirements
Select 6 credit points from the following options:  

- Technology Research Methods 6cp
- Reflective Practice in Information Technology 6cp

Total 6cp

CBK90639 Electives
Free choice of electives.

CBK90640 Elective
Free choice of electives.

CBK90641 Electives
Select 12 credit points from the following options:  

- Issues in Australian Health Services 6cp
- Using Health Care Data for Decision Making 6cp
- Accounting for Managerial Decisions 6cp
- Health Services Management and Legal Issues 6cp
- Biochemistry, Genes and Disease 6cp
- Chemistry and Pharmacology of Recreational Drugs 6cp
- Management Skills 6cp
- Managing Work and People 6cp
- Business Excellence 6cp

Total 12cp

CBK90642 Elective
Select 12 credit points from the following options:  

- Professional Science Project 12cp
- Microscopy and Cytometry 6cp
- Proteomics 6cp
- Biochemistry, Genes and Disease 6cp
- Parasitology 6cp
- Medical Devices and Diagnostics 6cp
- Bioreactors and Bioprocessing 6cp
- Pharmacology I 6cp
- Molecular Biology 2 6cp
- Advanced Immunology 6cp
- Medical and Diagnostic Biochemistry 6cp

Total 12cp
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<th>Course Title</th>
<th>Credit Points</th>
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<td>91540</td>
<td>Climate Change and Ecological Modelling</td>
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<td>91541</td>
<td>Monitoring Ecological Variability</td>
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<td>GIS and Remote Sensing</td>
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<td>Stream and Lake Assessment</td>
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<td>Ecohydrology and Climate Change</td>
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<td>Evaluation of Contaminant Effects</td>
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<td>Environment Risk Assessment and Remediation</td>
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<td>Forensic Biology Research Project A</td>
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<td>Topics in Australian Marine Science</td>
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<td>91156</td>
<td>Marine Primary Producers</td>
<td>6cp</td>
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**CBK90643 Elective**

Select 12 credit points from the following options: 12cp

- 21856 Career and Portfolio Development 6cp
- 21797 Strategic Supply Chain Management 6cp
- 21751 Management Research Methods 6cp
- 21725 Organisation Development 6cp
- 21800 Management and Organisations 6cp
- 21717 International Management 6cp
- 21720 Human Resource Management 6cp
- 21742 Quantitative Management 6cp
- 21844 Managing Work and People 6cp

Total 12cp

**CBK90644 Major choice**

Select 48 credit points from the following options: 48cp

- MA01121 Medical Biotechnology 48cp
- MA01003 Environmental Change Management 48cp
- MA01122 Physics and Advanced Materials 48cp
- MA01123 Forensic Science 48cp
- MA01124 Mathematical and Statistical Modelling 48cp
- MA01125 Science Management 48cp
- CBK90649 No specified major 48cp
- MA01130 Marine Science and Management 48cp
- MA01370 Biomedical Engineering 48cp

Total 48cp

**CBK90645 Extended major choice**

Select 72 credit points from the following options: 72cp

- MA08063 Extended Marketing 72cp
- MA08046 Extended Management 72cp
- MA08060 Extended Finance 72cp
- MA09402 Extended Economics 72cp

Total 72cp

**CBK90646 Sub-major/Four electives**

Select 24 credit points from the following options: 24cp

- SMJ08116 Financial Reporting 24cp
- SMJ08117 International Accounting 24cp
- SMJ08120 Small Business Accounting 24cp
- SMJ09029 Economics 24cp
- SMJ08123 Finance 24cp
- SMJ08126 Sport Management 24cp
- SMJ08127 Tourism Management 24cp
- SMJ08128 Human Resource Management 24cp
- SMJ08129 International Management 24cp
- SMJ08130 Management 24cp
- SMJ08131 Advanced Advertising 24cp
- SMJ08132 Marketing Research 24cp
- SMJ08137 Advertising 24cp
- SMJ08138 Marketing 24cp
- SMJ08139 International Business Studies 24cp
- SMJ08141 Human Resource Development 24cp
- SMJ02036 Business Information Systems 24cp
- SMJ02037 Information Technology 24cp
- SMJ09030 Business Law 24cp
- SMJ09033 Taxation Law 24cp
- SMJ01007 Mathematics 24cp
- SMJ01025 Quantitative Management 24cp
- SMJ01009 Statistics 24cp
- SMJ09034 International Studies 24cp
- SMJ09035 Language other than English 24cp
- SMJ09036 Specialist Country Studies 24cp
- CBK90171 Electives 24cp
- MAJ03470 Biomedical Engineering 48cp
- MAJ01130 Marine Science and Management 48cp
- MAJ01125 Science Management 48cp
- MAJ01124 Mathematical and Statistical Modelling 48cp
- MAJ01123 Forensic Science 48cp
- MAJ01122 Physics and Advanced Materials 48cp
- MAJ01121 Medical Biotechnology 48cp

Total 24cp

**CBK90647 Sub-major/Four electives**

Select 12 credit points from the following options: 12cp

- 21844 Managing Work and People 6cp
- 21742 Quantitative Management 6cp
- 21725 Organisation Development 6cp
- 21800 Management and Organisations 6cp
- 21717 International Management 6cp
- 21720 Human Resource Management 6cp
- 21742 Quantitative Management 6cp
- 21844 Managing Work and People 6cp

Total 12cp
CBK90648 Professional stream choice
Select 12 credit points from the following options: 12cp
69091 Advanced Communication Skills in Science 6cp
Select one of the following: 6cp
69002 The Scientific Method
35212 Computational Linear Algebra 6cp
69093 Project Management in Science 6cp
69094 Innovation, Entrepreneurship and Commercialisation 6cp
Total 12cp

CBK90649 No specified major
Select 48 credit points from the following options: 48cp
69090 Professional Science Project 12cp
91335 Microscopy and Cytometry 6cp
91336 Proteomics 6cp
91345 Biochemistry, Genes and Disease 6cp
91352 Parasitology 6cp
91705 Medical Devices and Diagnostics 6cp
91368 Bioreactors and Bioprocessing 6cp
91707 Pharmacology 1 6cp
91335 Molecular Biology 2 6cp
91359 Advanced Immunology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91369 Biobusiness and Environmental Biotechnology 6cp
91540 Climate Change and Ecological Modelling 6cp
91541 Monitoring Ecological Variability 6cp
91415 Environmental Protection and Management 6cp
91120 GIS and Remote Sensing 6cp
91155 Stream and Lake Assessment 6cp
91551 Ecohydrology and Climate Change 6cp
91157 Marine Communities 6cp
91116 Wildlife Ecology 6cp
66513 Marine Geosciences 6cp
91309 Biodiversity Conservation 6cp
91542 Principles of Contaminated Site Assessment 6cp
91543 Evaluation of Contaminant Effects 6cp
91544 Environment Risk Assessment and Remediation 6cp
68044 Characterisation of Energy Efficient Materials 6cp
68045 Computation Techniques in the Materials Sciences 6cp
68002 Advanced Nanomaterials 6cp
68001 Advanced Physics 6cp
68513 Optics and Nanophotonics 6cp
68320 Scanning Probe and Electron Microscopy 6cp
68415 Measurement and Analysis of Physical Processes 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
68316 Applied Electronics and Interfacing 6cp
67509 Molecular Nanotechnology 6cp
68315 Imaging Science 6cp
68135 Imaging Science 6cp
65034 Introduction to Forensic Science 6cp
65342 Crime Scene Investigation 6cp
65544 Chemical Criminalistics 6cp
65545 Forensic Toxicology 6cp
35255 Forensic Statistics 6cp
35254 Forensic Toxicology 6cp
35231 Differential Equations 6cp
35232 Advanced Analysis 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35353 Regression Analysis 6cp
35355 Quality Control 6cp
35365 Stochastic Calculus in Finance 6cp
35393 Seminar (Statistics) 6cp
35361 Stochastic Processes 6cp
35366 Numerical Methods of Finance 6cp
35457 Multivariate Statistics 6cp
35502 Seminar A 6cp
35503 Seminar B 6cp
35504 Seminar C 6cp
35505 Seminar D 6cp
35364 Statistics for Quantitative Finance 6cp
35356 Design and Analysis of Experiments 6cp
91545 Environment Research Project A 12cp
91546 Environment Research Project B 12cp
91547 Environment Research Project 24cp
91548 Forensic Biology Research Project A 12cp
91549 Forensic Biology Research Project B 12cp
91550 Forensic Biology Research Project 24cp
35112 Mathematical Research Project A 12cp
35113 Mathematical Research Project B 12cp
35114 Mathematical Research Project 24cp
91537 Biotechnology Research Project A 12cp
91538 Biotechnology Research Project B 12cp
91539 Biotechnology Research Project 24cp
65032 Forensic Science Research Project A 12cp
65033 Forensic Science Research Project B 24cp
65072 Forensic Science Research Project B 12cp
91709 Pharmacology 2 6cp
Total 48cp

CBK90650 Electives
Select 12 credit points from the following options: 12cp
69090 Professional Science Project 12cp
91335 Microscopy and Cytometry 6cp
91336 Proteomics 6cp
91345 Biochemistry, Genes and Disease 6cp
91352 Parasitology 6cp
91705 Medical Devices and Diagnostics 6cp
91368 Bioreactors and Bioprocessing 6cp
91707 Pharmacology 1 6cp
91335 Molecular Biology 2 6cp
91359 Advanced Immunology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91369 Biobusiness and Environmental Biotechnology 6cp
91540 Climate Change and Ecological Modelling 6cp
91541 Monitoring Ecological Variability 6cp
91415 Environmental Protection and Management 6cp
91120 GIS and Remote Sensing 6cp
91155 Stream and Lake Assessment 6cp
91551 Ecohydrology and Climate Change 6cp
91157 Marine Communities 6cp
91116 Wildlife Ecology 6cp
66513 Marine Geosciences 6cp
91309 Biodiversity Conservation 6cp
91542 Principles of Contaminated Site Assessment 6cp
91543 Evaluation of Contaminant Effects 6cp
91544 Environment Risk Assessment and Remediation 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
68316 Applied Electronics and Interfacing 6cp
67509 Molecular Nanotechnology 6cp
68315 Imaging Science 6cp
68135 Imaging Science 6cp
65034 Introduction to Forensic Science 6cp
65342 Crime Scene Investigation 6cp
65544 Chemical Criminalistics 6cp
65545 Forensic Toxicology 6cp
35255 Forensic Statistics 6cp
35254 Forensic Toxicology 6cp
35231 Differential Equations 6cp
35232 Advanced Analysis 6cp
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35342 Nonlinear Methods in Quantitative Management 6cp
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35353 Regression Analysis 6cp
35355 Quality Control 6cp
35365 Stochastic Calculus in Finance 6cp
35393 Seminar (Statistics) 6cp
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35502 Seminar A 6cp
35503 Seminar B 6cp
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35505 Seminar D 6cp
35364 Statistics for Quantitative Finance 6cp
35356 Design and Analysis of Experiments 6cp
91545 Environment Research Project A 12cp
91546 Environment Research Project B 12cp
91547 Environment Research Project 24cp
91548 Forensic Biology Research Project A 12cp
91549 Forensic Biology Research Project B 12cp
91550 Forensic Biology Research Project 24cp
35112 Mathematical Research Project A 12cp
35113 Mathematical Research Project B 12cp
35114 Mathematical Research Project 24cp
91537 Biotechnology Research Project A 12cp
91538 Biotechnology Research Project B 12cp
91539 Biotechnology Research Project 24cp
65032 Forensic Science Research Project A 12cp
65033 Forensic Science Research Project B 24cp
65072 Forensic Science Research Project B 12cp
91709 Pharmacology 2 6cp
Total 48cp

UITS: Handbook 2013Study package directory: Choice blocks
559
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<td>Physical Evidence</td>
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CBK90653 Stream choice
Select 144 credit points from the following options:
- STM90676 Physical Sciences stream 144cp
- STM90677 Life Sciences stream 144cp
- STM90678 Mathematical Sciences stream 144cp

Total 12cp

CBK90654 Major choice (Environmental and Marine Biology)
Select 96 credit points from the following options:
- MAJ0106 Environmental Biology 96cp
- MAJ01107 Marine Biology 96cp
- MAJ01108 Environmental Forensics 96cp
- MAJ01126 Environmental Sciences 96cp

Total 96cp

CBK90655 Major choice (Applied Physics Nanotechnology)
Select 96 credit points from the following options:
- MAJ01101 Applied Physics 96cp
- MAJ01102 Nanotechnology 96cp
- MAJ01128 Physics and Advanced Materials 96cp

Total 96cp

CBK90656 Environmental Science choice A
Select 36 credit points from the following options:
- 91149 Geological Processes 6cp
- 91110 Experimental Design and Sampling 6cp
- 91154 Ecology 6cp
- 91363 Animal Behaviour and Physiology 6cp
- 91270 Plant Phyiology and Ecophysiology 6cp
- 91157 Marine Communities 6cp
- 65621 Environmental Chemistry 6cp
- 91159 Environmental Forensics 6cp

Total 36cp

CBK90657 Environmental Science choice B
Select 36 credit points from the following options:
- 91120 GIS and Remote Sensing 6cp
- 91116 Wildlife Ecology 6cp
- 91121 Aquatic Ecology 6cp
- 91309 Biodiversity Conservation 6cp
- 91155 Stream and Lake Assessment 6cp
- 91145 Environmental Protection and Management 6cp
- 91371 Forest and Mountain Ecology 6cp
- 91370 Semi-arid Ecology 6cp
- 91118 Fisheries Resources 6cp
- 66513 Marine Geosciences 6cp
- 91126 Coral Reef Ecosystems 6cp
- 91156 Marine Primary Producers 6cp
- 91163 Alpine and Lowland Ecology 6cp

Total 36cp

CBK90658 Medical and Molecular Biosciences choice A
Select 36 credit points from the following options:
- 91314 General Microbiology 6cp
- 91320 Metabolic Biochemistry 6cp
- 91300 Histology 6cp
- 91142 Biotechnology 6cp
- 91703 Physiological Systems 6cp
- 91132 Molecular Biology 1 6cp
- 91326 Analytical Biochemistry 6cp
- 91330 Epidemiology and Public Health Microbiology 6cp
- 91401 Introductory Haematology and Immunology 6cp
- 91239 Human Pathophysiology 6cp

Total 36cp

CBK90659 Medical and Molecular Biosciences choice B
Select 36 credit points from the following options:
- 91335 Molecular Biology 2 6cp
- 91338 Clinical Bacteriology 6cp
- 91344 Medical and Diagnostic Biochemistry 6cp
- 91358 Advanced Haematology 6cp
- 91359 Advanced Immunology 6cp
- 91369 Biobusiness and Environmental Biotechnology 6cp
- 91707 Pharmacology 1 6cp
- 91706 Neuroscience 6cp
- 91403 Medical Imaging 6cp
- 91129 Transfusion Science 6cp
- 91345 Biochemistry, Genes and Disease 6cp
- 91352 Parasitology 6cp
- 91402 Anatomical Pathology 6cp
- 91368 Bioreactors and Bioprocessing 6cp
- 91144 Plant Biotechnology 6cp
- 91705 Medical Devices and Diagnostics 6cp
- 91709 Pharmacology 2 6cp
- 91708 Medical and Applied Physiology 6cp

Total 36cp

CBK90660 Physics and Advanced Materials choice A
Select 36 credit points from the following options:
- 65307 Physical Chemistry 1 6cp
- 68075 Nanomaterials 6cp
- 68412 Energy Science and Technology 6cp
- 23360 Mathematics for Physical Science 6cp
- 68414 Advanced Mechanics 6cp
- 68413 Quantum Physics 6cp
- 68315 Imaging Science 6cp
- 91140 BioNanotechnology 6cp

Total 36cp

CBK90661 Physics and Advanced Materials choice B
Select 36 credit points from the following options:
- 68316 Applied Electronics and Interfacing 6cp
- 68806 Solid-state Science and Nanodevices 6cp
- 68416 Computational Physics 6cp
- 67509 Molecular Nanotechnology 6cp
- 68513 Optics and Nanophotonics 6cp
- 68320 Scanning Probe and Electron Microscopy 6cp
- 68415 Measurement and Analysis of Physical Processes 6cp
- 67510 Surface Processes 6cp

Total 36cp
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<td>Design Expertise choice</td>
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Completion requirements:
- Select 36 credit points from the following options: 36cp
- Total 36cp
CBK90675 Geotechnical Engineering choice
Select 18 credit points from the following options:
49118 Applied Geotechnics 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49102 Traffic and Transportation 6cp
49106 Road Engineering Practice 6cp
49116 Contaminated Site and Waste Remediation 6cp
49257 Geographic Information Systems 6cp
49126 Environmental Management of Land 6cp
49143 Civil Engineering Review 1 6cp
49258 Pavement Analysis and Design 6cp
Total 18cp

CBK90676 Civil and Geotechnical Engineering choice B
Select 24 credit points from the following options:
49118 Applied Geotechnics 6cp
49102 Traffic and Transportation 6cp
49106 Road Engineering Practice 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49102 Traffic and Transportation 6cp
49116 Contaminated Site and Waste Remediation 6cp
49257 Geographic Information Systems 6cp
49126 Environmental Management of Land 6cp
49258 Pavement Analysis and Design 6cp
Total 24cp

CBK90677 Civil and Geotechnical Engineering choice C
Select 24 credit points from the following options:
49104 Finite Element Analysis 6cp
49131 Bridge Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49151 Facade Engineering 6cp
49135 Wind Engineering 6cp
49255 Catchment Modelling 6cp
49256 Flood Estimation 6cp
49107 Urban Stormwater Design 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49002 Managing Projects 6cp
49143 Civil Engineering Review 1 6cp
Total 24cp

CBK90678 Elective
Select 12 credit points from the following options:
60909 Professional Science Project 12cp
91355 Microscopy and Cytometry 6cp
91356 Proteomics 6cp
91345 Biochemistry, Genes and Disease 6cp
91532 Parasitology 6cp
91705 Medical Devices and Diagnostics 6cp
91368 Bioreactors and Bioprocessing 6cp
91707 Pharmacology 1 6cp
91325 Molecular Biology 2 6cp
91359 Advanced Immunology 6cp
91344 Medical and Diagnostic Biochemistry 6cp
91369 Biobusiness and Environmental Biotechnology 6cp
91540 Climate Change and Ecological Modelling 6cp
91541 Monitoring Ecological Variability 6cp
91145 Environmental Protection and Management 6cp
91120 GIS and Remote Sensing 6cp
91155 Stream and Lake Assessment 6cp
91515 Ecohydrology and Climate Change 6cp
91157 Marine Communities 6cp
91116 Wildlife Ecology 6cp
91118 Fisheries Resources 6cp
66513 Marine Geosciences 6cp
91309 Biodiversity Conservation 6cp
91542 Principles of Contaminated Site Assessment 6cp
91543 Evaluation of Contaminant Effects 6cp
91544 Environment Risk Assessment and Remediation 6cp
68044 Characterisation of Energy Efficient Materials 6cp
68045 Computation Techniques in the Materials Sciences 6cp
68022 Advanced Nanomaterials 6cp
68001 Advanced Computational Materials Science 6cp
68513 Optics and Nanophotonics 6cp
68320 Scanning Probe and Electron Microscopy 6cp
68415 Measurement and Analysis of Physical Processes 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
67509 Molecular Nanotechnology 6cp
68413 Quantum Physics 6cp
68515 Imaging Science 6cp
65034 Introduction to Forensic Science 6cp
65342 Crime Scene Investigation 6cp
65544 Chemical Criminalistics 6cp
65545 Forensic Toxicology 6cp
35255 Forensic Statistics 6cp
91137 DNA Profiling 6cp
91138 Investigation of Human Remains 6cp
65412 Physical Evidence 6cp
65643 Chemistry and Pharmacology of Recreational Drugs 6cp
65644 Fire and Explosion Investigation 6cp
91402 Anatomical Pathology 6cp
68563 Expert Evidence Presentation 6cp
65743 Complex Forensics Cases (Chemistry) 6cp
91139 Complex Forensic Cases (Biology) 6cp
79028 Complex Forensics Cases (Law for Biology) 6cp
35212 Computational Linear Algebra 6cp
35231 Differential Equations 6cp
35252 Mathematical Statistics 6cp
35322 Advanced Analysis 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35353 Regression Analysis 6cp
35355 Quality Control 6cp
35365 Stochastic Calculus in Finance 6cp
35393 Seminar (Statistics) 6cp
35361 Stochastic Processes 6cp
35366 Numerical Methods of Finance 6cp
35457 Multivariate Statistics 6cp
35502 Seminar A 6cp
35503 Seminar B 6cp
35504 Seminar C 6cp
35505 Seminar D 6cp
35364 Statistics for Quantitative Finance 6cp
35356 Design and Analysis of Experiments 6cp
Total 12cp

CBK90679 Stream choice
Select 96 credit points from the following options:
STM90523 Standard stream
STM90524 Extended major
Total 96cp

CBK90682 Options
Select 6 credit points from the following options:
60905 Leadership and Teamwork in Science 6cp
60906 Science in Practice 6cp
60907 Managing Science-based Enterprises 6cp
60908 Science and Industrialisation 6cp
Total 6cp

CBK90700 Major choice (Communication)
Select 48 credit points from the following options:
MAJ09395 Social Inquiry 48cp
MAJ10020 Journalism 48cp
MAJ10021 Media Arts and Production 48cp
MAJ10022 Writing and Cultural Studies 48cp
MAJ10023 Information and Media 48cp
MAJ10024 Public Communication 48cp
Total 48cp
CBK90701 Sub-major choice
Select 24 credit points from the following options:  
SMJ09048 Transnational Studies 24cp
SMJ09049 Reading Australia 24cp
SMJ09050 Environmental Studies 24cp
SMJ09051 Bodies, Genders, Rights 24cp
SMJ10032 Media Studies 24cp
SMJ10033 Screen Studies 24cp
SMJ09052 Aboriginal Studies 24cp
Total 24cp

CBK90702 Electives
Select 24 credit points from the following options:  
58110 Introduction to Journalism 8cp
58111 Reporting with Sound and Image 8cp
58112 Reporting and Editing for Print and Online Journalism 8cp
58116 The Ecology of Public Communication 8cp
58117 Principles of Public Relations 8cp
58118 Principles of Advertising 8cp
58119 Text and Context 8cp
58120 Creativity and Culture 8cp
58121 Fictional Forms 8cp
58122 Introducing to Social Inquiry 8cp
58123 Society, Economy and Globalisation 8cp
58124 Local Transformations 8cp
58125 Creative Information Design 8cp
58126 Information Discovery and Analysis 8cp
58127 Information Cultures 8cp
58128 Strategic Public Relations 8cp
58129 Advertising Campaign Practice 8cp
58222 Global Politics from Above and Below 8cp
58223 Social Bodies 8cp
58224 Australian Past and Places 8cp
58225 Introduction to Film Studies 8cp
58226 Media, Mediation, Power 8cp
58227 Balancing World Views: Introduction to Aboriginal Cultures 8cp
58228 Climate Change: Politics and Ecology 8cp
58316 Sex, Race and Empire 8cp
58317 Transnational Media 8cp
58318 Gender, Culture, Power 8cp
58319 Rights and Territories 8cp
58320 Australian Fiction 8cp
58321 Australian Film 8cp
58322 Screening the Past 8cp
58323 Contemporary World Cinema 8cp
58324 Investigating Media, Reflective Practices 8cp
58325 Audiences, Users, Publics, Communities 8cp
58326 Australian Aboriginal Politics and History 8cp
58327 Indigenous Futures 8cp
58328 The New Economy of Post-Nature 8cp
58329 Culture, Science and Nature 8cp
58999 Professional Internship 8cp
97101 Chinese Language and Culture 1 8cp
97102 Chinese Language and Culture 2 8cp
97401 French Language and Culture 1 8cp
97402 French Language and Culture 2 8cp
97601 German Language and Culture 1 8cp
97602 German Language and Culture 2 8cp
97801 Italian Language and Culture 1 8cp
97802 Italian Language and Culture 2 8cp
97901 Japanese Language and Culture 1 8cp
97902 Japanese Language and Culture 2 8cp
97903 Spanish Language and Culture 1 8cp
97904 Spanish Language and Culture 2 8cp
50025 Genocide Studies 8cp
50001 Online Documentary 8cp
976111 Contemporary China 8cp
976211 Contemporary Japan 8cp
976404 Contemporary Switzerland 8cp
976411 Contemporary France 8cp
976421 Contemporary Germany 8cp
976431 Contemporary Italy 8cp
976451 Contemporary Spain 8cp

976502 Contemporary Latin(o) Americas 8cp
976602 Contemporary Canada (Quebec) 8cp
976001 Foundations in International Studies 8cp
50190 Professional Information Project 8cp
58900 Poetry 8cp
58901 Screenwriting 8cp
58902 Writing Through Genre 8cp
Total 24cp

CBK90703 Electives
Select 12 credit points from the following options:  
49989 Operations Engineering 6cp
Total 12cp

CBK90704 Journalism elective
Select 24 credit points from the following options:  
57166 Documentary Production 8cp
57184 Documentary: Expanded, Mobile and Networked 8cp
57187 Specialist Journalism 8cp
57012 Regulation of the Media 8cp
57014 Feature Writing 8cp
57021 Journalism Internship 8cp
57138 International and Comparative Journalism 8cp
57150 Editing and Design 8cp
57151 Storytelling with Sound and Image 8cp
57152 Investigative Research in the Digital Environment 8cp
57155 Online Journalism 8cp
57156 Radio Journalism 8cp
57158 Television and Video Journalism 8cp
57161 Investigative Journalism 8cp
Total 24cp

CBK90706 Generalist Marketing choice
Select 24 credit points from the following options:  
24706 Strategic Services Marketing 6cp
24707 Strategic Business Marketing 6cp
24713 Marketing Channel Management 6cp
24736 Marketing Communications 6cp
24738 Strategic International Marketing 6cp
24742 New Product Management 6cp
24750 Marketing Analytics 6cp
24757 Research Methodology and Data Analysis Tools 6cp
24758 Readings in Marketing 6cp
24759 Research Design and Data Collection Tools 6cp
24760 Pricing and Revenue Management 6cp
Total 24cp

CBK90717 Electives major (PopEdSocChange)
Select 12 credit points from the following options:  
010040 Program Development and Evaluation in Indigenous Education and Development 6cp
010041 Research, Ethics and Indigenous Cultural Heritage 6cp
010042 Program Evaluation 6cp
013091 e-Learning Design 6cp
013092 e-Learning Design 6cp
013093 e-Learning Experiences 1 6cp
013094 e-Learning Technologies 6cp
013095 Global Englishes 6cp
013096 Language and Power 6cp
013097 Research Design 6cp
013098 The Psychology of Adult Development 6cp
013099 Communication Management 6cp
013100 Developing People and Teams 6cp
013101 Educational Leadership 6cp
013102 Using Film for Critical Pedagogy 6cp
013103 Professional Learning and Practice 6cp
013104 Organisational Learning 6cp
013105 Leading Learning in the Workplace 6cp
013106 Education in Policy Contexts 6cp
013107 Contemporary Work and Learning 6cp
013108 Adult Education: Past, Present, Future 6cp
Total 12cp
**CBK90708 Electives major (OrgWrkpllrn)**
Select 12 credit points from the following options: 12cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>013167</td>
<td>Contemporary Work and Learning 6cp</td>
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<td>013165</td>
<td>Leading Learning in the Workplace 6cp</td>
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<tr>
<td>013168</td>
<td>Adult Education: Past, Present, Future 6cp</td>
<td>6cp</td>
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</table>

**CBK90709 Electives major (AdEd)**
Select 12 credit points from the following options: 12cp

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<tr>
<td>013120</td>
<td>The Psychology of Adult Development 6cp</td>
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<td>013127</td>
<td>Communication Management 6cp</td>
<td>6cp</td>
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<tr>
<td>013136</td>
<td>Developing People and Teams 6cp</td>
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<td>013137</td>
<td>Educational Leadership 6cp</td>
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<td>013146</td>
<td>Using Film for Critical Pedagogy 6cp</td>
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<td>013161</td>
<td>Organisational Learning 6cp</td>
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<td>013162</td>
<td>New Media and Social Change 6cp</td>
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<td>013164</td>
<td>Narrative and Storymaking in Education and Change 6cp</td>
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<td>013165</td>
<td>Leading Learning in the Workplace 6cp</td>
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<tr>
<td>013166</td>
<td>Education in Policy Contexts 6cp</td>
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</tr>
<tr>
<td>013168</td>
<td>Adult Education: Past, Present, Future 6cp</td>
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**CBK90711 Choice**
Select 48 credit points from the following options: 48cp

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<td>Patents and Trade Marks Law 6cp</td>
<td>6cp</td>
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<tr>
<td>77894</td>
<td>Drafting of Patent Specifications 6cp</td>
<td>6cp</td>
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<td>77890</td>
<td>Trade Marks Practice 6cp</td>
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<td>77891</td>
<td>Patent Systems 6cp</td>
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<tr>
<td>77895</td>
<td>Interpretation and Validity of Patent Specifications 6cp</td>
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<td>77893</td>
<td>Designs Law and Practice 6cp</td>
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<td>78015</td>
<td>Global Aspects of Intellectual Property Law 6cp</td>
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<td>77903</td>
<td>Copyright Law 6cp</td>
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<td>Research Paper 6cp</td>
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<td>Intellectual Property Commercialisation 6cp</td>
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<td>Preparing for Intellectual Property Practice 6cp</td>
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<td>78186</td>
<td>Intellectual Property and Traditional Knowledge 6cp</td>
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**CBK90712 Choice**
Select 24 credit points from the following options: 24cp

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<td>77894</td>
<td>Drafting of Patent Specifications 6cp</td>
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<td>77890</td>
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<td>77891</td>
<td>Patent Systems 6cp</td>
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<tr>
<td>49100</td>
<td>Cloud Computing and Service Cloud Computing 6cp</td>
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<tr>
<td>49101</td>
<td>Developing People and Teams 6cp</td>
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<td>49102</td>
<td>Management Projects 6cp</td>
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<tr>
<td>49103</td>
<td>Economic Evaluation 6cp</td>
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<td>Systems Engineering for Managers 6cp</td>
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<td>Managing Information Technology in Engineering 6cp</td>
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<td>49106</td>
<td>Technology and Innovation Management 6cp</td>
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<td>49107</td>
<td>Evaluation of Infrastructure Investments 6cp</td>
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<td>49108</td>
<td>Energy Resources and Technology 6cp</td>
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<td>Energy and Environmental Economics 6cp</td>
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<td>Environmental Policy for Energy Systems 6cp</td>
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<td>Wireless Networking Technologies 6cp</td>
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<td>49113</td>
<td>Air and Noise Pollution 6cp</td>
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<td>Leadership and Responsibility 6cp</td>
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<td>Engineering Financial Control 6cp</td>
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<td>49116</td>
<td>GSM, GPRS and EDGE Technologies 6cp</td>
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<td>49117</td>
<td>Traffic and Transportation 6cp</td>
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<td>Water Supply and Wastewater Management 6cp</td>
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<td>Road Engineering Practice 6cp</td>
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<td>Urban Stormwater Design 6cp</td>
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<td>49121</td>
<td>Local Government Powers and Practice 6cp</td>
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<td>Engineered Natural Water Treatment Systems 6cp</td>
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<td>3G Mobile Communication Systems 6cp</td>
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<td>Contaminated Site and Waste Remediation 6cp</td>
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<td>Floodplain Risk Management in NSW 6cp</td>
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<td>49126</td>
<td>Applied Geotechnics 6cp</td>
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CBK90744 Electives
Select 16 credit points from the following options: 16cp
- 57028 Research for Communication Professionals 8cp
- 57026 Strategic Communication and Negotiation 8cp
- 57035 Organisational Change and Communication 8cp
- 57131 Inventive Media Advertising 8cp
- 57132 Media Relations 8cp
- 57995 Learning in Organisations 8cp
Total 16cp

CBK90745 200/300-level disciplinary choice
Select 8 credit points from the following options: 8cp
- 58225 Introduction to Film Studies 8cp
- 58323 Contemporary World Cinema 8cp
- 58120 Creativity and Culture 8cp
- 58320 Australian Fiction 8cp
- 58322 Screening the Past 8cp
- 58321 Australian Film 8cp
- 58217 Experiments in Culture 8cp
Total 8cp

CBK90746 Mobile Computing Network choice
Free choice of electives.

CBK90747 Internetworking choice
Select 6 credit points from the following options: 6cp
- 32702 Contemporary Telecommunications 6cp
- 32521 WANS and VLANS 6cp
- 32001 Mobile Commerce Technologies 6cp
- 32144 Technology Research Preparation 6cp
Total 6cp

CBK90750 Elective choice
Select 6 credit points from the following options: 6cp
- 89202 3D Digital Animation 1 6cp
- 89203 3D Digital Animation 2 6cp
- 89204 2D Digital Animation 6cp
Total 6cp

CBK90766 Electives (Tourism)
Select 12 credit points from the following options: 12cp
- 27346 Tour Operator and Wholesaling Management 6cp
- 27347 Hotel Management 6cp
- 27646 Tourist Attractions Management 6cp
- 27647 Airlines and Transportation Management 6cp
- 27649 Ecotourism Planning and Management 6cp
- 27703 Event Management 6cp
Total 12cp

CBK90767 Electives
Free choice of electives.

CBK90768 Options
Select 42 credit points from the following options: 42cp
- 32039 Recent Advances in Software Engineering 6cp
- 32106 Agile Method Engineering 6cp
- 32133 e-Market Trading Technology 6cp
- 32145 Commercial Environment of IT 6cp
- 32148 Enterprise Computing 6cp
- 32510 Principles of Object-oriented Programming in C++ 6cp
- 32530 Building Intelligent Agents 6cp
- 32531 Global Information Systems 6cp
- 32535 Database in Distributed Environments 6cp
- 32536 Advanced Software Modelling 6cp
- 32550 Advances in Requirements Engineering 6cp
- 32601 Advanced Project Management 6cp
- 32931 Technology Research Methods 6cp
- 32933 Research Project 6cp
- 32990 IT Contracts and Outsourcing 6cp
- 32007 Strategic Information Technology Investment 6cp
Total 42cp
CBK90769 Options
Select 18 credit points from the following options:
32039 Recent Advances in Software Engineering 6cp
32106 Agile Method Engineering 6cp
32133 e-Market Trading Technology 6cp
32145 Commercial Environment of IT 6cp
32148 Enterprise Computing 6cp
32510 Principles of Object-oriented Programming in C++ 6cp
32530 Building Intelligent Agents 6cp
32531 Global Information Systems 6cp
32535 Database in Distributed Environments 6cp
32556 Advanced Software Modelling 6cp
32550 Advances in Requirements Engineering 6cp
32990 IT Contracts and Outsourcing 6cp
Total 18cp

CBK90770 Options
Select 12 credit points from the following options:
32007 Strategic Information Technology Investment 6cp
32208 Information Systems Strategy 6cp
32601 Advanced Project Management 6cp
32902 Recent Advances in Information Systems 6cp
32990 IT Contracts and Outsourcing 6cp
Total 12cp

CBK90771 Electives
Select 18 credit points from the following options:
32005 Strategic Leadership for Innovation 6cp
32007 Strategic Information Technology Investment 6cp
32145 Commercial Environment of IT 6cp
32148 Enterprise Computing 6cp
32208 Information Systems Strategy 6cp
32531 Global Information Systems 6cp
32601 Advanced Project Management 6cp
32902 Recent Advances in Information Systems 6cp
32990 IT Contracts and Outsourcing 6cp
Total 18cp

CBK90772 Games Development options
Select 18 credit points from the following options:
31005 Data Mining Algorithms 6cp
31080 Digital Multimedia 6cp
31096 Managing Client/Vendor Relations 6cp
31097 IT Operations Management 6cp
31100 Enterprise Development with .NET 6cp
31335 Extreme Programming 6cp
31735 Information Systems and Organisation Development 6cp
31777 Human-Computer Interaction 6cp
31927 Application Development with .NET 6cp
31950 Networked Enterprise Design 6cp
Total 18cp

CBK90773 Design Expertise electives
Select 24 credit points from the following options:
11401 Digital Master Class A 6cp
11403 Digital Master Class B 6cp
11400 Digital Theory 6cp
89204 2D Digital Animation 6cp
89202 3D Digital Animation 6cp
89200 Graphic Visualisation 6cp
89201 Animation Genres Seminar 6cp
89203 3D Digital Animation 2 6cp
13512 Communication and Critical Thinking 6cp
88952 Design Project Specialisation 6cp
13515 Project Management Principles 6cp
13851 Future Design Strategies 6cp
13530 Program Management 6cp
13525 Value Management, Negotiation and Conflict Management 6cp
13527 Managing Project Complexity 6cp
13514 Project Implementation 6cp
Total 24cp

CBK90775 Major choice
Select 108 credit points from the following options:
MAJ07058 Mathematics 6cp
MAJ07059 Visual Arts 6cp
MAJ07060 Personal Development, Health and Physical Education 6cp
MAJ07061 Science 6cp
MAJ07062 Languages other than English 6cp
MAJ07063 English 6cp
MAJ07064 Mathematics /Science 6cp
MAJ07065 Science /Computing Studies 6cp
MAJ07066 Mathematics /Computing Studies 6cp
MAJ07068 English /History 6cp
MAJ07069 Geography /Commerce, Business Studies and Economics 6cp
MAJ07070 Commerce, Business Studies and Economics 6cp
MAJ07071 History /Geography 6cp
MAJ07073 Computing Studies 6cp
MAJ07074 Commerce, Business Studies and Economics /Computing Studies 6cp
Total 108cp

CBK90777 Options
Select 12 credit points from the following options:
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013118 Teaching and Learning Literacy 6cp
013102 Introduction to Language 6cp
013971 Teaching and Learning Numeracy 6cp
013958 Language Teaching Methodology 6cp
013124 Work and People 6cp
013979 Organisational Learning and Change: Local and Global 6cp
013963 Cultural Diversity at Work 6cp
013966 e-Learning Experiences 6cp
013967 e-Learning Design 6cp
013976 Strategic Human Resource Development 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013972 Organisational Learning 6cp
013099 Individualised Project 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013151 Project Management 6cp
013149 The Language Literacy and Numeracy Learner 6cp
013088 Educational Management 6cp
013097 Human Resource Development in Organisations 6cp
013978 Research and Inquiry 6cp
013982 Aboriginal Cultures 6cp
013974 The Psychology of Adult Learning 6cp
013980 Identity, Culture and Communication 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
013973 Adult Education Policy in Context 6cp
Total 12cp

CBK90778 Year 2 (Design Studies)
Select 6 credit points from the following options:
85506 Design Differences: Intercultural Asia 6cp
85601 Design Interventions: Business Innovation 6cp
85504 Design Futures: Sustainable Lifestyles 6cp
85500 Design Futures: Creative Technologies 6cp
Total 6cp

CBK90779 Year 4 (Design Studies)
Select 6 credit points from the following options:
85602 Interdisciplinary Design Lab: Undergraduate 6cp
85603 Interdisciplinary Design Experience: Undergraduate 6cp
85605 Design Differences: Community Identities 6cp
85505 Design Interventions: Making Theories 6cp
Total 6cp
CBK90780 Recognition of prior learning TAFE
Free choice of electives.

CBK90781 Major choice (Information Technology)
Select 48 credit points from the following options: 48cp
MAJ02080 Business Information Systems 48cp
MAJ03444 Enterprise Systems Development 48cp
MAJ03445 Internetworking and Applications 48cp
SMJ02064 Business Information Systems Management 24cp
SMJ02065 Data Analytics 24cp
SMJ02066 Computer Graphics and Animation 24cp
SMJ03037 Internetworking and Applications 24cp
SMJ08157 Business Accounting 24cp
SMJ09040 Introductory Economics 24cp
SMJ08159 Employment Relations 24cp
SMJ08160 International Management 24cp
SMJ01010 Electronics and Computer Interfacing 24cp
SMJ01012 Physics 24cp
SMJ01032 Statistical Modelling 24cp
SMJ02057 Scientific Computing 24cp
SMJ09034 International Studies 24cp
SMJ09035 Language other than English 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08188 Accounting for Small Business 24cp
SMJ08198 Advertising Principles 24cp
SMJ08197 Marketing Principles 24cp
SMJ08196 Innovation 24cp
CBK90783 Electives 24cp
CBK90784 Electives 24cp
SMJ01026 Quantitative Management 24cp
Total 48cp

CBK90782 Major/Two sub-majors/Electives
Select 48 credit points from the following options: 48cp
MAJ02080 Business Information Systems Management 48cp
MAJ02081 Data Analytics 48cp
MAJ03444 Enterprise Systems Development 48cp
MAJ03445 Internetworking and Applications 48cp
SMJ02064 Business Information Systems Management 24cp
SMJ02065 Data Analytics 24cp
SMJ02066 Computer Graphics and Animation 24cp
SMJ03037 Internetworking and Applications 24cp
SMJ08157 Business Accounting 24cp
SMJ09040 Introductory Economics 24cp
SMJ08159 Employment Relations 24cp
SMJ08160 International Management 24cp
SMJ01010 Electronics and Computer Interfacing 24cp
SMJ01012 Physics 24cp
SMJ01032 Statistical Modelling 24cp
SMJ02057 Scientific Computing 24cp
SMJ09034 International Studies 24cp
SMJ09035 Language other than English 24cp
SMJ09036 Specialist Country Studies 24cp
SMJ08188 Accounting for Small Business 24cp
SMJ08198 Advertising Principles 24cp
SMJ08197 Marketing Principles 24cp
SMJ08196 Innovation 24cp
CBK90783 Electives 24cp
CBK90784 Electives 24cp
SMJ01026 Quantitative Management 24cp
Total 48cp

CBK90783 Electives
Free choice of electives.

CBK90784 Electives
Free choice of electives.

CBK90785 Electives
Select 12 credit points from the following options: 12cp
31080 Digital Multimedia 6cp
31097 IT Operations Management 6cp
31335 Extreme Programming 6cp
31748 Programming on the Internet 6cp
31777 Human-Computer Interaction 6cp
31338 Network Servers 6cp
31927 Application Development with .NET 6cp
31100 Enterprise Development with .NET 6cp
31005 Data Mining Algorithms 6cp
31241 3D Computer Animation 6cp
31242 Advanced Internet Programming 6cp
31245 Business Process and IT Strategy 6cp
31246 Network Design 6cp
31247 Collaborative Business Processes 6cp
31249 Computer Graphics Rendering Techniques 6cp
31250 Introduction to Data Analytics 6cp
31251 Data Structures and Algorithms 6cp
31252 Network Security 6cp
31254 e-Commerce 6cp
31256 Image Processing and Pattern Recognition 6cp
31257 Information System Development Methodologies 6cp
31258 Innovations for Global Relationship Management 6cp
31259 Intelligent Agents 6cp
31261 Internetworking Project 6cp
31262 Introduction to Computer Game Design 6cp
31263 Introduction to Computer Game Programming 6cp
31264 Introduction to Computer Graphics 6cp
31265 Mobile Applications Development 6cp
Total 12cp

CBK90786 Electives
Select 24 credit points from the following options: 24cp
31080 Digital Multimedia 6cp
31097 IT Operations Management 6cp
31335 Extreme Programming 6cp
31748 Programming on the Internet 6cp
31777 Human-Computer Interaction 6cp
31338 Network Servers 6cp
31927 Application Development with .NET 6cp
31100 Enterprise Development with .NET 6cp
31005 Data Mining Algorithms 6cp
31241 3D Computer Animation 6cp
31242 Advanced Internet Programming 6cp
31245 Business Process and IT Strategy 6cp
31246 Network Design 6cp
31247 Collaborative Business Processes 6cp
31249 Computer Graphics Rendering Techniques 6cp
31250 Introduction to Data Analytics 6cp
31251 Data Structures and Algorithms 6cp
31252 Network Security 6cp
31254 e-Commerce 6cp
31256 Image Processing and Pattern Recognition 6cp
31257 Information System Development Methodologies 6cp
31258 Innovations for Global Relationship Management 6cp
31259 Intelligent Agents 6cp
31261 Internetworking Project 6cp
31262 Introduction to Computer Game Design 6cp
31263 Introduction to Computer Game Programming 6cp
31264 Introduction to Computer Graphics 6cp
31265 Mobile Applications Development 6cp
Total 24cp

CBK90787 Electives
Select 24 credit points from the following options: 24cp
57989 Mise-en-Scene 8cp
57014 Feature Writing 8cp
57031 Non-fiction Writing 8cp
57041 Narrative Writing 8cp
57046 Professional Editing 8cp
57053 Book Publishing and Marketing 8cp
57101 Advanced Screenwriting 8cp
57122 Short Fiction Workshop 8cp
57124 Novel Writing 8cp
57133 Writing Poetry 8cp
57142 Writing for the Screen 8cp
57144 Popular Fiction 8cp
57145 Freelance Writing 8cp
Total 24cp

CBK90788 Options
Select 12 credit points from the following options: 12cp
013975 Designing and Developing Simulations and Games 6cp
013082 Aboriginal Social and Political History 6cp
013102 Introduction to Language 6cp
013960 Individual Communication in the Workplace 6cp
013961 Team Communication in the Workplace 6cp
013972 Organisational Learning 6cp
013099 Individualised Project I 6cp
013124 Work and People 6cp
CBK90793 Stream choice
Select 48 credit points from the following options:

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<th>Course Title</th>
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<tr>
<td>STM90212</td>
<td>Management stream</td>
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<td>STM90213</td>
<td>Marketing stream</td>
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<td>STM90798</td>
<td>Economics stream (Honours)</td>
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<td>STM90799</td>
<td>Finance stream (Honours)</td>
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Total 12cp

CBK90795 Electives
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<td>15142</td>
<td>Introduction to Property and Planning</td>
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<td>17700</td>
<td>Planning and Environmental Law</td>
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<td>11400</td>
<td>Digital Theory</td>
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<td>85509</td>
<td>Design Differences: Community Identities</td>
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<td>89200</td>
<td>Graphic Visualisation</td>
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<tr>
<td>89301</td>
<td>Design Communication and Criticism</td>
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<td>Drawing to Diagrams: Topics in Architectural Theory</td>
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<td>11316</td>
<td>Architectural Communications: Advanced Modelling Software</td>
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<td>15143</td>
<td>Group Project A: Urban Renewal</td>
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<td>15145</td>
<td>Development Negotiation</td>
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Total 24cp

CBK90796 Foundation subject choice A
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<td>22107</td>
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<td>6cp</td>
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<td>24108</td>
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<td>6cp</td>
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<tr>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
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<td>Introduction to Information Systems</td>
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Total 6cp

CBK90797 Foundation subject choice B
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<td>Physics in Action</td>
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<td>22107</td>
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Total 6cp

CBK90800 Electives/Sub-major (MAP)
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<td>Directing</td>
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<td>Digital and Multiplatform Storytelling</td>
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<td>57179</td>
<td>Project Development and Creative Practice</td>
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Total 48cp

CBK90801 Sub-major/Electives
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<td>Web Services Technologies and Applications</td>
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<tr>
<td>32549</td>
<td>Advanced Internet Programming</td>
<td>6cp</td>
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<tr>
<td>32209</td>
<td>Advanced Topics in Computer Networks</td>
<td>6cp</td>
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<tr>
<td>32548</td>
<td>Network Security</td>
<td>6cp</td>
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<tr>
<td>32558</td>
<td>Business Intelligence</td>
<td>6cp</td>
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<td>32559</td>
<td>Business Process Design</td>
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<td>32560</td>
<td>IS Architecture - A Cloud Perspective</td>
<td>6cp</td>
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<td>32528</td>
<td>Network Management</td>
<td>6cp</td>
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<td>UNIX Systems Programming</td>
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<td>32521</td>
<td>WANS and VLANS</td>
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<td>95563</td>
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<td>95565</td>
<td>Digital Graphics and the Still Image</td>
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<td>95566</td>
<td>Digital Information and Interaction Design</td>
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<tr>
<td>95567</td>
<td>Digital Media in Social Context</td>
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<td>Enterprise Business Requirements</td>
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**CBK90803 Choice**

Select 18 credit points from the following options: 18cp

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<td>95565</td>
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<td>Digital Information and Interaction Design</td>
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**Total 18cp**

**CBK90804 Choice**

Select 36 credit points from the following options: 36cp

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<td>32516</td>
<td>Internet Programming</td>
<td>6cp</td>
</tr>
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<td>32521</td>
<td>WANS and VLANS</td>
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<td>32525</td>
<td>Web Services Technologies and Applications</td>
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<td>UNIX Systems Programming</td>
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**Total 36cp**
CBK90806 Electives (MAP)
Select 24 credit points from the following options: 24cp

CBK90807 Electives
Select 18 credit points from the following options: 18cp

CBK90809 Elective (Medical Science)
Select 6 credit points from the following options: 6cp

CBK90810 Electives A (Biomedical Science)
Select 12 credit points from the following options: 12cp

CBK90811 Electives B (Biomedical Science)
Select 12 credit points from the following options: 12cp

CBK90812 Major choice
Select 48 credit points from the following options: 48cp
CBK90813 Year 3 (Business)
Free choice of electives.

CBK90814 Elective choice
Select 24 credit points from the following options:		 24cp
SMJ10034 Journalism
24cp
CBK90138 Electives (PSM) (B)
24cp
Total 24cp

CBK90815 Electives
Select 12 credit points from the following options:		 12cp
11308
Reading and Writing Architectural
Criticism
6cp
11361
Special Project (Theory)
6cp
11312
Modern Western Aesthetics
6cp
Total 12cp

CBK90816 Choice

49306
49048
49099
49110
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49227

User-Centred Design Methods
Operating Systems for Network Security
Database in Distributed Environments
Advanced Software Modelling
Advanced Internet Programming
Advances in Requirements Engineering
Contemporary Telecommunications
Internetwork Design
Programming with Patterns
Technology and Innovation
Management
Quality and Operations Management
Systems
Wireless Networking Technologies
GSM, GPRS and EDGE Technologies
3G Mobile Communication Systems
Sustainability and Information Systems
Object-Relational Databases
Cloud Computing and Software as a
Service
Wireless Sensor Networks

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6cp
6cp
Total 24cp

CBK90817 Choice

571

Study package directory: Choice blocks

Select 48 credit points from the following options:		 48cp
32209
Advanced Topics in Computer Networks
6cp
32509
Interaction Design
6cp
32516
Internet Programming
6cp
32521
WANS and VLANS
6cp
32525
Web Services Technologies and
Applications
6cp
32528
Network Management
6cp
32547
UNIX Systems Programming
6cp
32548
Network Security
6cp
32549
Advanced Internet Programming
6cp
32558
Business Intelligence
6cp
32559
Business Process Design
6cp
32560
IS Architecture - A Cloud Perspective
6cp
95563
Digital Media Development Process
6cp
95564
Digital Media Technologies
6cp
95565
Digital Graphics and the Still Image
6cp
95566
Digital Information and Interaction Design 6cp
95567
Digital Media in Social Context
6cp
95568
Digital Sound and the Moving Image
6cp
32933
Research Project
6cp
32934
Research Project
12cp
32113
Advanced Database
6cp
32567
Business Intelligence for Decision Support 6cp
32568
Business Intelligence Modelling and
Analysis
6cp
32569
Enterprise Business Requirements
6cp
32570
Enterprise Software Architecture and
Middleware
6cp
32148
Enterprise Computing
6cp
32571
Enterprise Software Testing
6cp
32513
Advanced Data Mining Algorithms
6cp
32530
Building Intelligent Agents
6cp
32003
Computer Game Design
6cp
32004
Game Programming
6cp
32501
Computer Graphics
6cp
32543
3D Animation
6cp
32544
Advanced Image Synthesis Techniques
6cp
32603
Systems Quality Management
6cp
32208
Information Systems Strategy
6cp
32990
IT Contracts and Outsourcing
6cp
32995
People Management for IT
6cp
32998
.NET Application Development
6cp
32130
Fundamentals of Data Analytics
6cp
32039
Recent Advances in Software Engineering
6cp
32040
Industry Project
6cp
32120
Introduction to e-Business Technology
6cp
32510
Principles of Object-oriented
Programming in C++
6cp
32531
Global Information Systems
6cp
32901
Recent Advances in Computer Systems
6cp
32902
Recent Advances in Information Systems
6cp
32012
Internet Quality of Service (QoS)
6cp
32013
.NET Enterprise Development
6cp
32027
Multimedia Systems Design
6cp
32029
Interactive Arts
6cp
32106
Agile Method Engineering
6cp
32118
Mobile Communications and Computing
6cp

UTS: Handbook 2013

Select 24 credit points from the following options:		 24cp
32209
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6cp
32509
Interaction Design
6cp
32516
Internet Programming
6cp
32521
WANS and VLANS
6cp
32525
Web Services Technologies and
Applications
6cp
32528
Network Management
6cp
32547
UNIX Systems Programming
6cp
32548
Network Security
6cp
32558
Business Intelligence
6cp
32559
Business Process Design
6cp
32560
IS Architecture - A Cloud Perspective
6cp
95563
Digital Media Development Process
6cp
95564
Digital Media Technologies
6cp
95565
Digital Graphics and the Still Image
6cp
95566
Digital Information and Interaction Design 6cp
95567
Digital Media in Social Context
6cp
95568
Digital Sound and the Moving Image
6cp
32933
Research Project
6cp
32934
Research Project
12cp
32113
Advanced Database
6cp
32567
Business Intelligence for Decision Support 6cp
32568
Business Intelligence Modelling and
Analysis
6cp
32569
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32570
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Middleware
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32148
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32004
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6cp
32543
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6cp
32544
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32603
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6cp
32208
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32118
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32131
Data Mining and Visualisation
6cp
32133
e-Market Trading Technology
6cp
32145
Commercial Environment of IT
6cp
32146
Data Visualisation and Visual Analytics
6cp
32147
Introduction to IT Management
6cp
32210
Computer Vision and Image Processing
6cp
32309
Digital Forensics
6cp

32405
32523
32535
32536
32549
32550
32702
32527
32050
49016


CBK90824 Electives (Online Journalism)
Select 8 credit points from the following options: 8cp
57151 Storytelling with Sound and Image 8cp
57152 Investigative Research in the Digital Environment 8cp
Total 8cp

CBK90825 Electives (Investigative Journalism)
Select 8 credit points from the following options: 8cp
57014 Feature Writing 8cp
57061 Issues in Documentary 8cp
57021 Journalism Internship 8cp
57138 International and Comparative Journalism 8cp
57155 Online Journalism 8cp
57012 Regulation of the Media 8cp
57151 Storytelling with Sound and Image 8cp
Total 8cp

CBK90826 Electives (Adult Education)
Select 6 credit points from the following options: 6cp
010071 Professional Practice 2 Language Literacy and Numeracy 6cp
010073 Professional Practice 2 Vocational Education and Training 6cp
010075 Professional Practice 2 Human Resource Development 6cp
Total 6cp

CBK90827 Electives (Non-fiction Writing)
Select 24 credit points from the following options: 24cp
57011 Research and Reporting for Journalism 8cp
57041 Narrative Writing 8cp
57046 Professional Editing 8cp
57145 Freelance Writing 8cp
57152 Investigative Research in the Digital Environment 8cp
57165 True Crime 8cp
Total 24cp

CBK90828 Electives/Sub-major (Non-fiction Writing)
Select 24 credit points from the following options: 24cp
SMJ10042 Media Arts and Production 24cp
Total 24cp

CBK90829 Electives (TESOL foundation)
Select 12 credit points from the following options: 12cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
Total 12cp

CBK90830 Electives (TESOL specialisation)
Select 12 credit points from the following options: 12cp
013132 Technology Enhanced Language Learning 6cp
013141 Language Programming and Assessment 6cp
013142 Teaching English for Academic Purposes 6cp
013104 Language and Power 6cp
013983 Academic Literacies in TESOL and Applied Linguistics 6cp
Total 12cp

CBK90831 Electives (TESOL)
Select 42 credit points from the following options: 42cp
013132 Technology Enhanced Language Learning 6cp
013095 Global Englishes 6cp
013096 Grammar and the Construction of Meaning 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
Total 42cp
Select 24 credit points from the following options:

- CBK90839 Design options 24cp
- CBK90838 Design option 24cp
- CBK90836 Sub-major choice
- CBK90832 Electives (MAP cross-disciplinary) 8cp
- CBK90833 Electives (MAP) 16cp
- CBK90834 Electives (MAP + MAP cross-disciplinary) 24cp
- CBK90835 Electives (MAP) 24cp
- CBK90836 Sub-major choice 24cp
- CBK90837 Elective choice
- CBK90838 Design option 24cp
- CBK90839 Design options 24cp

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Free choice of electives.

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- CBK90840 Electives (Operations Supply Chain Manager) Select 12 credit points from the following options: 12cp
- 21745 Service Operations Management 6cp
- 21779 Management Skills 6cp
- 21827 Change Management 6cp
- 21832 Managing for Sustainability 6cp
- 22782 Business Process Integration with ERP 6cp
- CBK90837 Electives (Law/Business) 12cp

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- CBK90842 Health Research RPL Free choice of electives.

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- CBK90844 Research choice Select 12 credit points from the following options: 12cp
- 32934 Research Project 12cp
- STM90766 Research stream 12cp

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- CBK90845 Choice Select 18 credit points from the following options: 18cp
- 32209 Advanced Topics in Computer Networks 6cp
- 32509 Interaction Design 6cp
- 32516 Internet Programming 6cp
- 32521 WANS and VLANS 6cp
- 32525 Web Services Technologies and Applications 6cp
- 32528 Network Management 6cp
- 32547 UNIX Systems Programming 6cp
- 32548 Network Security 6cp
- 32558 Business Intelligence 6cp
- 32559 Business Process Design 6cp
- 32560 IS Architecture - A Cloud Perspective 6cp
- 95564 Digital Media Technologies 6cp
- 95565 Digital Graphics and the Still Image 6cp
- 95566 Digital Information and Interaction Design 6cp
- 95567 Digital Media in Social Context 6cp
- 32113 Digital Sound and the Moving Image 6cp
- 32567 Business Intelligence for Decision Support 6cp
- 32568 Business Intelligence Modelling and Analysis 6cp
- 32569 Enterprise Business Requirements 6cp
- 32570 Enterprise Software Architecture and Middleware 6cp
- 32571 Enterprise Software Testing 6cp
- 32572 Advanced Data Mining Algorithms 6cp
- 32530 Building Intelligent Agents 6cp
- 32003 Computer Game Design 6cp
- 32004 Game Programming 6cp
- 32501 Computer Graphics 6cp
- 32543 3D Animation 6cp
- 32544 Advanced Image Synthesis Techniques 6cp
- 32603 Systems Quality Management 6cp
- 32208 Information Systems Strategy 6cp
- 32990 People Management for IT 6cp
- 32998 NET Application Development 6cp
- 32130 Fundamentals of Data Analytics 6cp
- 32093 Recent Advances in Software Engineering 6cp
- 32090 Industry Project 6cp
- 32120 Introduction to e-Business Technology 6cp
- 32510 Principles of Object-oriented Programming in C++ 6cp
- 32531 Global Information Systems 6cp
- 32091 Recent Advances in Computer Systems 6cp
- 32092 Recent Advances in Information Systems 6cp
- 32012 Internet Quality of Service (QoS) 6cp
- 32013 NET Enterprise Development 6cp
- 32027 Multimedia Systems Design 6cp
- 32029 Interactive Arts 6cp
- 32106 Agile Method Engineering 6cp
- 32118 Mobile Communications and Computing 6cp
- 32131 Data Mining and Visualisation 6cp
- 32133 e-Market Trading Technology 6cp
- 32145 Commercial Environment of IT 6cp
- 32146 Data Visualisation and Visual Analytics 6cp
- 32147 Introduction to IT Management 6cp

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- CBK90846 Electives (Law/Business) 12cp
- STM90766 Research stream 12cp

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- CBK90846 Electives (Operations Supply Chain Manager) Select 12 credit points from the following options: 12cp
- 21745 Service Operations Management 6cp
- 21779 Management Skills 6cp
- 21827 Change Management 6cp
- 21832 Managing for Sustainability 6cp
- 22782 Business Process Integration with ERP 6cp
- CBK90837 Electives (Law/Business) 12cp

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- CBK90844 Research choice Select 12 credit points from the following options: 12cp
- 32934 Research Project 12cp
- STM90766 Research stream 12cp

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- CBK90845 Choice Select 18 credit points from the following options: 18cp
- 32209 Advanced Topics in Computer Networks 6cp
- 32509 Interaction Design 6cp
- 32516 Internet Programming 6cp
- 32521 WANS and VLANS 6cp
- 32525 Web Services Technologies and Applications 6cp
- 32528 Network Management 6cp
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- 95566 Digital Information and Interaction Design 6cp
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- 32113 Digital Sound and the Moving Image 6cp
- 32567 Business Intelligence for Decision Support 6cp
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- 32570 Enterprise Software Architecture and Middleware 6cp
- 32571 Enterprise Software Testing 6cp
- 32572 Advanced Data Mining Algorithms 6cp
- 32530 Building Intelligent Agents 6cp
- 32003 Computer Game Design 6cp
- 32004 Game Programming 6cp
- 32501 Computer Graphics 6cp
- 32543 3D Animation 6cp
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- 32145 Commercial Environment of IT 6cp
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<th>Credit Points</th>
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<td>3G Mobile Communication Systems</td>
<td>6cp</td>
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<tr>
<td>49200</td>
<td>Sustainability and Information Systems</td>
<td>6cp</td>
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<tr>
<td>49204</td>
<td>Cloud Computing and Software as a Service</td>
<td>6cp</td>
</tr>
<tr>
<td>49227</td>
<td>Wireless Sensor Networks</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90847</td>
<td>Electives</td>
<td>42cp</td>
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<tr>
<td>57026</td>
<td>Strategic Communication and Negotiation</td>
<td>8cp</td>
</tr>
<tr>
<td>57131</td>
<td>Inventive Media Advertising</td>
<td>8cp</td>
</tr>
<tr>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
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<tr>
<td>CBK90848</td>
<td>Elective</td>
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<tr>
<td>57997</td>
<td>Professional Communication Project</td>
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<tr>
<td>57024</td>
<td>Managing Public Communication Strategies</td>
<td>8cp</td>
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<tr>
<td>57132</td>
<td>Media Relations</td>
<td>8cp</td>
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<tr>
<td>57026</td>
<td>Strategic Communication and Negotiation</td>
<td>8cp</td>
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<tr>
<td>57996</td>
<td>Marketing and Corporate Communication</td>
<td>8cp</td>
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<tr>
<td>57131</td>
<td>Inventive Media Advertising</td>
<td>8cp</td>
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<tr>
<td>57035</td>
<td>Organisational Change and Communication</td>
<td>8cp</td>
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<tr>
<td>57994</td>
<td>Managing Organisational Communication</td>
<td>8cp</td>
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<tr>
<td>57995</td>
<td>Learning in Organisations</td>
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<tr>
<td>57087</td>
<td>Knowledge Management and the Organisation</td>
<td>8cp</td>
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<tr>
<td>57175</td>
<td>Creative Producing</td>
<td>8cp</td>
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<tr>
<td>57167</td>
<td>Moving Image</td>
<td>8cp</td>
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<tr>
<td>CBK90849</td>
<td>Major choice</td>
<td>24cp</td>
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<tr>
<td>MAJ08057</td>
<td>Integrated Communication</td>
<td>24cp</td>
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<tr>
<td>MAJ08058</td>
<td>Public Relations</td>
<td>24cp</td>
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<tr>
<td>MAJ08059</td>
<td>Organisational Change and Communication</td>
<td>24cp</td>
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<tr>
<td>STMA9770</td>
<td>No specified major</td>
<td>24cp</td>
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<tr>
<td>CBK90850</td>
<td>Management electives</td>
<td>12cp</td>
</tr>
<tr>
<td>21630</td>
<td>Global Strategic Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21591</td>
<td>Transnational Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21513</td>
<td>Business Ethics and Sustainability</td>
<td>6cp</td>
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<tr>
<td>CBK90851</td>
<td>Biomedical Engineering</td>
<td>12cp</td>
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<tr>
<td>49261</td>
<td>Biomedical Instrumentation</td>
<td>6cp</td>
</tr>
<tr>
<td>91400</td>
<td>Human Anatomy and Physiology</td>
<td>6cp</td>
</tr>
<tr>
<td>91429</td>
<td>Physiological Bases of Human Movement</td>
<td>6cp</td>
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Total 18cp
Total 8cp
Total 12cp
Total 24cp
Total 12cp
Total 42cp
### CBK90852 Biomedical Engineering
Select 18 credit points from the following options: 18cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>49275</td>
<td>Neural Networks and Fuzzy Logic 6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics 6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies 6cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics 6cp</td>
</tr>
<tr>
<td>91403</td>
<td>Medical Imaging 6cp</td>
</tr>
<tr>
<td>91140</td>
<td>BioNanotechnology 6cp</td>
</tr>
<tr>
<td>91239</td>
<td>Human Pathophysiology 6cp</td>
</tr>
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<td><strong>Total 18cp</strong></td>
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</table>

### CBK90853 Engineering Management
Select 18 credit points from the following options: 18cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making 6cp</td>
</tr>
<tr>
<td>49006</td>
<td>Risk Management in Engineering 6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems 6cp</td>
</tr>
<tr>
<td>60904</td>
<td>Innovation, Entrepreneurship and Commercialisation 6cp</td>
</tr>
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<td><strong>Total 18cp</strong></td>
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</table>

### CBK90854 Biomedical Engineering
Select 12 credit points from the following options: 12cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>49275</td>
<td>Neural Networks and Fuzzy Logic 6cp</td>
</tr>
<tr>
<td>49274</td>
<td>Advanced Robotics 6cp</td>
</tr>
<tr>
<td>49048</td>
<td>Wireless Networking Technologies 6cp</td>
</tr>
<tr>
<td>91705</td>
<td>Medical Devices and Diagnostics 6cp</td>
</tr>
<tr>
<td>91403</td>
<td>Medical Imaging 6cp</td>
</tr>
<tr>
<td>91140</td>
<td>BioNanotechnology 6cp</td>
</tr>
<tr>
<td>91239</td>
<td>Human Pathophysiology 6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 12cp</strong></td>
</tr>
</tbody>
</table>

### CBK90855 Electives (Community and Not-for-Profit Management)
The electives chosen should comprise postgraduate subjects only.

**Completion requirements**

Free choice of electives.

### CBK90856 Major choice
Select 72 credit points from the following options: 72cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MAJ06215</td>
<td>Health Research 72cp</td>
</tr>
<tr>
<td>MAJ08968</td>
<td>Health Services Planning 72cp</td>
</tr>
<tr>
<td>MAJ08969</td>
<td>Safety and Quality in Health Care 72cp</td>
</tr>
<tr>
<td>MAJ08970</td>
<td>Clinical Management 72cp</td>
</tr>
<tr>
<td>STM90712</td>
<td>Health Services Management (No major) 72cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 72cp</strong></td>
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</table>

### CBK90857 Electives
Select 12 credit points from the following options: 12cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>92604</td>
<td>Mental Health Assessment 6cp</td>
</tr>
<tr>
<td>92605</td>
<td>Therapeutic Interventions in Mental Health Care 2</td>
</tr>
<tr>
<td>92713</td>
<td>Health Breakdown 6cp</td>
</tr>
<tr>
<td>92603</td>
<td>Managing Quality, Risk and Cost in Health Care</td>
</tr>
<tr>
<td>92607</td>
<td>Education for Practice Development 6cp</td>
</tr>
<tr>
<td>92271</td>
<td>Health Promotion and Health Education 6cp</td>
</tr>
<tr>
<td>92847</td>
<td>Planning and Evaluating Health Services 6cp</td>
</tr>
<tr>
<td>92848</td>
<td>Facilitation of Clinical Learning 6cp</td>
</tr>
<tr>
<td>92871</td>
<td>Perinatal Development 6cp</td>
</tr>
<tr>
<td>92876</td>
<td>Therapeutic Interventions in Mental Health Care 6</td>
</tr>
<tr>
<td>92878</td>
<td>Care of the Child in Illness and Disability 6cp</td>
</tr>
<tr>
<td>92881</td>
<td>Foundations of Perioperative Nursing 6cp</td>
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<tr>
<td>92882</td>
<td>Techniques in Perioperative Nursing 6cp</td>
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<tr>
<td>92887</td>
<td>Organisational Management in Health Care 6cp</td>
</tr>
<tr>
<td>92985</td>
<td>Issues in Neonatal Care 6cp</td>
</tr>
<tr>
<td>92902</td>
<td>Care of the Acutely Ill Child 6cp</td>
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<tr>
<td>92905</td>
<td>Dimensions of Anaesthesia Nursing 6cp</td>
</tr>
<tr>
<td>92917</td>
<td>Using Health Care Data for Decision Making 6cp</td>
</tr>
<tr>
<td>92918</td>
<td>Fundamentals of Critical Care Nursing 6cp</td>
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<tr>
<td>92919</td>
<td>Complex Critical Care 6cp</td>
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<tr>
<td>92920</td>
<td>Neurosurgical Trauma and Cerebrovascular 6cp</td>
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<tr>
<td>92921</td>
<td>Neurosciences: Degenerative and Oncological 6cp</td>
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<tr>
<td>92926</td>
<td>Information Management Application 6cp</td>
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<tr>
<td>92932</td>
<td>Management for Clinicians 6cp</td>
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<tr>
<td>92609</td>
<td>Pharmacological Therapies in Advanced Practice 6</td>
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<tr>
<td>92946</td>
<td>Project Part A 6cp</td>
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<td>92947</td>
<td>Project Part B 6cp</td>
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<tr>
<td>92812</td>
<td>Project 12cp</td>
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<tr>
<td>92616</td>
<td>Core Concepts in Acute Care Nursing 6cp</td>
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<tr>
<td>92617</td>
<td>Early Interventions in Acute Care Nursing 6cp</td>
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<tr>
<td>92023</td>
<td>Health Services Resource Management 6cp</td>
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<tr>
<td>92296</td>
<td>Epidemiology and Population Health 6cp</td>
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<tr>
<td>92022</td>
<td>Improving Quality and Safety in Health Care 6cp</td>
</tr>
<tr>
<td>92297</td>
<td>Health Systems and Change 6cp</td>
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<td><strong>Total 72cp</strong></td>
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### CBK90858 Options (Jd)
Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>78100</td>
<td>Postgraduate Legal Research 8cp</td>
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<tr>
<td>78102</td>
<td>LLM Project by Research 8cp</td>
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<tr>
<td>78104</td>
<td>Genetics and the Law 8cp</td>
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<tr>
<td>78106</td>
<td>Climate Law and Carbon Markets 8cp</td>
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<tr>
<td>78108</td>
<td>Globalisation and International Economic Law 8cp</td>
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<tr>
<td>78110</td>
<td>Banking and Finance Law 8cp</td>
</tr>
<tr>
<td>78112</td>
<td>Securities Regulation 8cp</td>
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<tr>
<td>78114</td>
<td>Financial Analysis for the Transactional Lawyer 8</td>
</tr>
<tr>
<td>78116</td>
<td>International Regulation of Financial Institutions 8</td>
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<tr>
<td>78118</td>
<td>Business and Law in China 8cp</td>
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<tr>
<td>78119</td>
<td>Commercial Arbitration (Domestic) 8cp</td>
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<tr>
<td>78121</td>
<td>Corporate Insolvency 8cp</td>
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<tr>
<td>78123</td>
<td>Deceptive Trade Practices 8cp</td>
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<tr>
<td>78124</td>
<td>Dispute Resolution in Commerce 8cp</td>
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<td>78125</td>
<td>Corporate Governance 8cp</td>
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<tr>
<td>78127</td>
<td>Advanced Mediation 8cp</td>
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<td>78128</td>
<td>Child Law in Australia 8cp</td>
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<td>78130</td>
<td>Complex Parenting Disputes 8cp</td>
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<tr>
<td>78132</td>
<td>Complex Financial and Property Disputes (in Family Law) 8cp</td>
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<tr>
<td>78134</td>
<td>Current Issues in Family Law 8cp</td>
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<td>78136</td>
<td>Dispute Resolution 8cp</td>
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<td>78137</td>
<td>Facilitation 8cp</td>
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<td>78139</td>
<td>Family Dispute Resolution 8cp</td>
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<tr>
<td>78140</td>
<td>International and Comparative Family Law 8cp</td>
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<td>78142</td>
<td>New Families, New Technologies 8cp</td>
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<tr>
<td>78143</td>
<td>Psychology and Dispute Resolution 8cp</td>
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<tr>
<td>78144</td>
<td>Contemporary Issues in Family Law 8cp</td>
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<tr>
<td>78146</td>
<td>Dilemmas in Biomedical Law 8cp</td>
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<td>78148</td>
<td>Law and Medicine 8cp</td>
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<td>78149</td>
<td>Law and Mental Health 8cp</td>
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<td>78151</td>
<td>Human Rights Law 8cp</td>
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<td>78152</td>
<td>International Commercial Transactions 8cp</td>
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<td>78154</td>
<td>International Criminal Law 8cp</td>
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<td>78155</td>
<td>International Environmental Law: Policy and Implementation 8cp</td>
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<td>78157</td>
<td>Private International Law 8cp</td>
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<td>78159</td>
<td>Rights and Obligations in the International Legal System 8cp</td>
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<td>78161</td>
<td>Global Governance and Social Justice 8cp</td>
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<tr>
<td>78163</td>
<td>Law and Regulation 8cp</td>
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<td>78165</td>
<td>Media and Entertainment Law and Regulation 8cp</td>
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<td>78167</td>
<td>Perspectives on Regulation 8cp</td>
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<td>78169</td>
<td>Regulatory Strategies and Compliance Principles 8</td>
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<tr>
<td>78171</td>
<td>Crisis Negotiation 8cp</td>
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<tr>
<td>78172</td>
<td>Dispute Resolution in Civil Practice 8cp</td>
</tr>
<tr>
<td>78174</td>
<td>Mediation Practice 8cp</td>
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<td>78175</td>
<td>Negotiation 8cp</td>
</tr>
<tr>
<td>78176</td>
<td>Workplace Dispute Resolution 8cp</td>
</tr>
<tr>
<td>78177</td>
<td>Converging Media Industries: Regulatory Challenges 8cp</td>
</tr>
<tr>
<td>78179</td>
<td>Telecommunications Law and Regulations 8cp</td>
</tr>
<tr>
<td>78183</td>
<td>Global Aspects of Intellectual Property Law 8cp</td>
</tr>
<tr>
<td>78185</td>
<td>Intellectual Property: Law and Policy 8cp</td>
</tr>
<tr>
<td>78187</td>
<td>Intellectual Property and Traditional Knowledge 8</td>
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<tr>
<td>78189</td>
<td>Intellectual Property Commercialisation 8cp</td>
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<tr>
<td>78190</td>
<td>Patent Law 8cp</td>
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<tr>
<td>78191</td>
<td>Patent Systems 8cp</td>
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<td><strong>Total 12cp</strong></td>
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</table>
CBK90860 PM advanced
Select 48 credit points from the following options: 48cp
15314 Project Implementation 6cp
15326 Project Management Practicum 6cp
15327 Managing Project Complexity 6cp
15330 Program Management 6cp
15333 Systems Thinking for Managers 6cp
15338 Realising Project Benefits 6cp
15346 Governance and Leadership of Project Management 6cp
13347 The Project Organisation: A new Organisational Model 6cp
15356 Reflective Project Practice 6cp
15462 Introduction to Research 6cp
15463 The Research Process 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
CBK90861 PM specialist sub-major 24cp
Total 48cp

CBK90861 PM specialist sub-major
Select 24 credit points from the following options: 24cp
SMJ00216 Business 24cp
SMJ03061 Engineering 24cp
SMJ02069 Information Technology 24cp
Total 24cp

CBK90862 Software Innovation choice
Select 36 credit points from the following options: 36cp
48924 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48430 Embedded C 6cp
48454 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
Total 36cp

CBK90863 Telecommunications Innovation choice
Select 36 credit points from the following options: 36cp
48770 Continuous Communications 6cp
48771 Discrete Communications 6cp
48780 Mobile Communications 6cp
48740 Communications Networks 6cp
48730 Authentication and System Security 6cp
48750 Network Planning and Management 6cp
Total 36cp

CBK90864 Computer Systems Innovation choice
Select 36 credit points from the following options: 36cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
Total 36cp

CBK90865 Mechanical Innovation choice
Select 24 credit points from the following options: 24cp
48660 Dynamics and Control 6cp
60101 Chemistry and Materials Science 6cp
48641 Fluid Mechanics 6cp
48651 Thermodynamics 6cp
48661 Heat Transfer 6cp
48640 Machine Dynamics 6cp
48663 Advanced Manufacturing 6cp
48601 Mechanical Vibration and Measurement 6cp
Total 24cp

CBK90866 Mechanical and Mechatronics Innovation choice
Select 12 credit points from the following options: 12cp
48660 Dynamics and Control 6cp
48520 Electronics and Circuits 6cp
48641 Fluid Mechanics 6cp
48651 Thermodynamics 6cp
48640 Machine Dynamics 6cp
48531 Electromechanical Automation 6cp
Total 12cp

CBK90867 Biomedical Engineering stream choice
Select 12 credit points from the following options: 12cp
STM90778 Physical sciences stream 12cp
STM90779 Biomedical sciences stream 12cp
Total 12cp

CBK90868 Major choice (SecEd)
Free choice of electives.

CBK90869 Electives (SecEd)
Free choice of electives.

CBK90870 HSIE options (SecEd)
Select 12 credit points from the following options: 12cp
STM90781 Business Studies/Economics subjects (SecEd) 12cp
STM90782 Business Studies/Economics/History subjects (SecEd) 12cp
STM90783 Business Studies/Economics/Society and Culture subjects (SecEd) 12cp
STM90784 Business Studies/Economics/Legal Studies subjects (SecEd) 12cp
STM90785 History/Society and Culture subjects (SecEd) 12cp
STM90786 History/Legal Studies subjects (SecEd) 12cp
STM90787 Society and Culture/Legal Studies subjects (SecEd) 12cp
Total 12cp

CBK90871 Sub-major options
Select 24 credit points from the following options: 24cp
CBK90872 Options 24cp
CBK90873 Sub-major options 24cp
Total 24cp

CBK90872 Options
Select 24 credit points from the following options: 24cp
84712 Product Engineering 12cp
84812 Innovation and Commercialisation in Integrated Product Design 12cp
Total 24cp

CBK90873 Sub-major options
Free choice of electives.
### CBK90874 Project options
Select 24 credit points from the following options: 24cp
- 84906 Professional Studio 12cp
- 84904 Integrated Product Design Major Project: Realisation 12cp
- 84900 Superstudio 24cp
Total 24cp

### CBK90875 Electives (International Business)
Select 12 credit points from the following options: 12cp
- 21511 Global Operations and Supply Chain Management 6cp
- 25052 International Banking Management 6cp
- 23491 International Trade and Investment 6cp
- 25491 Investment Analysis and Risk Management 6cp
Total 12cp

### CBK90876 Electives (Management)
Select 12 credit points from the following options: 12cp
- 92297 Health Systems and Change 6cp
- 84900 Superstudio 24cp
- 23787 Health Technology Assessment 6cp
- 26703 Introductory Health Economics 6cp
- 92295 Advanced Health Services Planning 6cp
- 92847 Planning and Evaluating Health Services 6cp
Total 12cp

### CBK90877 Electives
Select 12 credit points from the following options: 12cp
- 92932 Management for Clinicians 6cp
- 92022 Improving Quality and Safety in Health Care 6cp
- 92297 Health Systems and Change 6cp
- 92847 Planning and Evaluating Health Services 6cp
- 92295 Advanced Health Services Planning 6cp
- 26703 Introductory Health Economics 6cp
- 25767 Health Technology Assessment 6cp
Total 12cp

### CBK90881 Level 1 Subjects
Select 24 credit points from the following options: 24cp
- 91405 Medical Imaging 6cp
- 91706 Neuroscience 6cp
- 48623 Mechatronics 2 6cp
- 48560 Introductory Control 6cp
- 31005 Data Mining Algorithms 6cp
- 31050 Programming with Patterns 6cp
- 31256 Image Processing and Pattern Recognition 6cp
- 31250 Introduction to Data Analytics 6cp
- 91705 Medical Devices and Diagnostics 6cp
Total 24cp

### CBK90882 Level 2 Subjects
Select 12 credit points from the following options: 12cp
- 41105 Biomedical Signal and Image Processing 6cp
- 42001 Bioinformatics 6cp
- 49274 Advanced Robotics 6cp
- 49275 Neural Networks and Fuzzy Logic 6cp
- 49261 Biomedical Instrumentation 6cp
Total 12cp

### CBK90883 Level 1 Subjects
Select 24 credit points from the following options: 24cp
- 91403 Medical Imaging 6cp
- 91706 Neuroscience 6cp
- 48623 Mechatronics 2 6cp
- 48560 Introductory Control 6cp
- 31005 Data Mining Algorithms 6cp
- 31050 Programming with Patterns 6cp
- 31256 Image Processing and Pattern Recognition 6cp
- 31250 Introduction to Data Analytics 6cp
- 91705 Medical Devices and Diagnostics 6cp
Total 24cp

### CBK90884 Electives (MBus Finance Extended)
Select 30 credit points from the following options: 30cp
- 25728 Bond Portfolio Management 6cp
- 25729 Applied Portfolio Management 6cp
- 25752 Financial Institution Lending 6cp
- 25762 Synthetic Financial Products 6cp
- 25764 Venture Capital Finance 3cp
- 25796 Personal Wealth Management 6cp
- 25807 Mergers and Acquisitions 3cp
- 25809 Technical Analysis 3cp
- 25812 Fundraising in International Markets 3cp
- 25818 Real Estate Finance and Investment 3cp
- 25824 Project Financing 3cp
- 77947 Companies and Securities Law 6cp
Total 30cp

### CBK90885 Major/Electives (Business Management)
Select 36 credit points from the following options: 36cp
- MAJ08972 Human Resources and Management major 36cp
- MAJ08973 Operations and Supply Chain Management 36cp
- CBK90886 Electives (MBus Management Extended) 36cp
Total 36cp

### CBK90886 Electives (MBus Management Extended)
Select 36 credit points from the following options: 36cp
- CBK90387 Electives (Law/Business) 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 77942 Legal Aspects of Contracts Administration 6cp
- 21008 Management Consulting 6cp
- 21012 Governance and Sustainability 6cp
- 21743 Business Excellence 6cp
- 21745 Service Operations Management 6cp
- 21797 Strategic Supply Chain Management 6cp
- 27715 Sport Business 6cp
- 21751 Management Research Methods 6cp
- 27733 The Experience Economy 6cp
- 27778 Innovative Services Management 6cp
- 27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
- 27734 Marketing for the Experience Industries 6cp
- 21722 Leadership, Coaching and Mentoring 6cp
- 21877 Strategic Procurement 6cp
- 21702 Industrial Relations 6cp
- 21724 Strategic Human Resource Management 6cp
- 21760 Performance and Talent Management 6cp
- 21833 International Human Resources Management 6cp
Total 36cp

### CBK90887 Electives (MBus Management Extended)
Select 12 credit points from the following options: 12cp
- 21012 Governance and Sustainability 6cp
- 21008 Management Consulting 6cp
- 21722 Leadership, Coaching and Mentoring 6cp
- 21008 Management Consulting 6cp
- 21012 Governance and Sustainability 6cp
- 77942 Legal Aspects of Contracts Administration 6cp
Total 12cp

### CBK90888 Electives (MBus HRM Extended)
Select 36 credit points from the following options: 36cp
- CBK90387 Electives (Law/Business) 6cp
- 21741 Managing Operations 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 21853 Career and Portfolio Development 6cp
- 21745 Service Operations Management 6cp
- 21833 International Human Resources Management 6cp
Total 18cp

### CBK90889 Electives (MBus HRM Extended)
Select 36 credit points from the following options: 36cp
- CBK90387 Electives (Law/Business) 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 21853 Career and Portfolio Development 6cp
- 21745 Service Operations Management 6cp
- 21833 International Human Resources Management 6cp
Total 18cp

### CBK90878 Electives (MBus HRM Extended)
Select 12 credit points from the following options: 12cp
- 21853 Career and Portfolio Development 6cp
- 21745 Service Operations Management 6cp
- 21833 International Human Resources Management 6cp
Total 12cp

### CBK90880 Electives (MBus HRM Extended)
Select 36 credit points from the following options: 36cp
- CBK90387 Electives (Law/Business) 6cp
- 21741 Managing Operations 6cp
- 21854 Innovation and Entrepreneurship 6cp
- 21853 Career and Portfolio Development 6cp
- 21745 Service Operations Management 6cp
- 21833 International Human Resources Management 6cp
Total 36cp
### CBK9089 Electives [MBus Marketing Extended]
Select 36 credit points from the following options: 36cp
- 24706 Strategic Services Marketing 6cp
- 24707 Strategic Business Marketing 6cp
- 24713 Marketing Channel Management 6cp
- 24736 Marketing Communications 6cp
- 24738 Strategic International Marketing 6cp
- 24742 New Product Management 6cp
- 24750 Marketing Analytics 6cp
- 24757 Research Methodology and Data Analysis Tools 6cp
- 24758 Readings in Marketing 6cp
- 24759 Research Design and Data Collection Tools 6cp
- 24760 Pricing and Revenue Management 6cp
- 24788 Electives (Mbus Marketing extended) 6cp

Total 36cp

### CBK9089 Elective subjects (Business Marketing)
Select 36 credit points from the following options: 36cp
- 89105 Design Activism 6cp
- 89106 Researching Contexts 6cp
- 89107 Innovation and Entrepreneurship: A 6cp
- 89108 Technology Workshop: Creative Play 6cp
- 89109 Technology Workshop: Experimental Media 6cp
- 89110 Engaging Texts: Interpreting Contexts 6cp
- 89171 Innovation and Entrepreneurship: B 6cp
- 89172 Engaging Texts: Cross-Disciplinary Conversations 6cp
- 89173 Technology Workshop: New Poetics 6cp

Total 36cp

### CBK9089 Elective subjects [Design]
Select 24 credit points from the following options: 24cp
- STM90880 China Stream 24cp
- STM90801 Japan Stream 24cp
- STM90802 France Stream 24cp
- STM90803 Spain Stream 24cp
- STM90804 Germany Stream 24cp
- STM90805 Italy Stream 24cp
- STM90806 Canada (Quebec) Stream 24cp
- STM90807 Switzerland Stream 24cp
- STM90808 Chile Stream 24cp
- STM90809 Mexico Stream 24cp
- STM90810 Argentina Stream 24cp
- STM90811 Colombia Stream 24cp
- STM90812 Latino USA Stream 24cp

Total 24cp

### CBK9089 Elective subjects (Business)
Select 48 credit points from the following options: 48cp
- MAJ09412 China Major 48cp
- MAJ09413 Japan Major 48cp
- MAJ09414 France Major 48cp
- MAJ09415 Spain Major 48cp
- MAJ09416 Germany Major 48cp
- MAJ09417 Italy Major 48cp
- MAJ09418 Canada (Quebec) Major 48cp
- MAJ09419 Switzerland Major 48cp
- MAJ09420 Chile Major 48cp
- MAJ09421 Mexico Major 48cp
- MAJ09422 Argentina Major 48cp
- MAJ09423 Colombia 48cp
- MAJ09424 Latin(o) USA Major 48cp

Total 48cp

### CBK9089 Elective subjects [Animation]
Select 8 credit points from the following options: 8cp
- 57041 Narrative Writing 8cp
- 57154 Writing Television Drama 8cp
- 57989 Mise-en-Scene 8cp
- 57178 Digital and Multiplatform Storytelling 8cp

Total 8cp

### CBK9089 Elective subjects (Screenwriting)
Select 16 credit points from the following options: 16cp
- CBK90492 German Language and Culture 16cp
- CBK90490 French Language and Culture 16cp
- CBK90493 Italian Language and Culture 16cp

Total 16cp

### CBK9089 Elective subjects (Journalism)
Select 8 credit points from the following options: 8cp
- CBK90899 Choices (Journalism PG)
- 57012 Regulation of the Media 8cp
- 57138 International and Comparative Journalism 8cp

Total 8cp

### CBK90890 Electives (International Studies)
Select 16 credit points from the following options: 16cp
- CBK90900 Electives (International Studies)
- 57011 Research and Reporting for Journalism 8cp
- 57022 Foundations of Communication 8cp
- 57025 Intercultural and International Communication 8cp
- 57028 Research for Communication Professionals 8cp
- 57031 Non-fiction Writing 8cp
- 57138 International and Comparative Journalism 8cp
- 57100 People, Information and Knowledge 8cp
- 57145 Freelance Writing 8cp
- 57152 Investigative Research in the Digital Environment 8cp
- 57167 Moving Image 8cp
- 57178 Digital and Multiplatform Storytelling 8cp
- 57182 Rethinking Media 8cp

Total 8cp
MAJORS

MAJO1023 Statistics
35356 Design and Analysis of Experiments 6cp
35353 Regression Analysis 6cp
35355 Quality Control 6cp
Select one of the following: 6cp
35361 Stochastic Processes 6cp
35363 Stochastic Models 6cp
Total 24cp

MAJO1024 Quantitative Management Science
35342 Nonlinear Methods in Quantitative Management 6cp
35363 Stochastic Models 6cp
35340 Quantitative Management Practice 6cp
35344 Network and Combinatorial Optimisation 6cp
Total 24cp

MAJO1079 Applied Chemistry
33910 Mathematical Modelling for Science 6cp
33920 Statistics and Mathematics for Science 6cp
65111 Chemistry 1 6cp
65212 Chemistry 2 6cp
65202 Organic Chemistry 1 6cp
65306 Analytical Chemistry 1 6cp
65307 Physical Chemistry 1 6cp
65409 Analytical Chemistry 2 6cp
65410 Chemical Safety and Legislation 6cp
65411 Inorganic Chemistry 1 6cp
65508 Organic Chemistry 2 6cp
65509 Inorganic Chemistry 2 6cp
65606 Analytical Chemistry 3 6cp
65607 Physical Chemistry 2 6cp
68101 Foundations of Physics 6cp
68201 Physics in Action 6cp
Total 96cp

MAJO1080 Applied Physics
33910 Mathematical Modelling for Science 6cp
65111 Chemistry 1 6cp
33920 Statistics and Mathematics for Science 6cp
65212 Chemistry 2 6cp
68101 Foundations of Physics 6cp
33360 Mathematics for Physical Science 6cp
68201 Physics in Action 6cp
68070 Introduction to Materials 6cp
68075 Nanomaterials 6cp
68412 Energy Science and Technology 6cp
68315 Imaging Science 6cp
68413 Quantum Physics 6cp
Select one of the following: 6cp
688316 Applied Electronics and Interfacing 6cp
688416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
Select 12 credit points from the following options: 12cp
68320 Scanning Probe and Electron Microscopy 6cp
68513 Optics and Nanophotonics 6cp
68415 Measurement and Analysis of Physical Processes 6cp
68414 Advanced Mechanics 6cp
Total 96cp

MAJO1081 Biomedical Science
91161 Cell Biology and Genetics 6cp
65111 Chemistry 1 6cp
91400 Human Anatomy and Physiology 6cp
65212 Chemistry 2 6cp
91314 General Microbiology 6cp
91320 Metabolic Biochemistry 6cp
91152 Molecular Biology 1 6cp
91350 Epidemiology and Public Health Microbiology 6cp
91500 Histology 6cp
91326 Analytical Biochemistry 6cp
91401 Introductory Haematology and Immunology 6cp
CBK90810 Electives A (Biomedical Science) 12cp
CBK90811 Electives B (Biomedical Science) 12cp
Select one of the following: 6cp
91703 Physiological Systems 6cp
91142 Biotechnology 6cp
Total 96cp

CBK90903 Electives (Midwifery)
Free choice of electives.

CBK90904 Electives (Midwifery)
Free choice of electives.
MAJ01082 Environmental Biology
91107 The Biosphere 6cp
65111 Chemistry 1 6cp
91123 Biocomplexity 6cp
65212 Chemistry 2 6cp
91110 Experimental Design and Sampling 6cp
91154 Ecology 6cp
91363 Animal Behaviour and Physiology 6cp
91270 Plant Physiology and Ecophysiology 6cp
91161 Cell Biology and Genetics 6cp
33116 Statistical Design and Analysis 6cp
91145 Environmental Protection and Management 6cp
Select one of the following: 6cp
91370 Semi-â€œrid Ecology 6cp
91371 Forest and Mountain Ecology 6cp
91163 Alpine and Lowland Ecology 6cp
91309 Biodiversity Conservation 6cp
Select 12 credit points from the following options: 12cp
68513 Optics and Nanophotonics 6cp
91140 BioNanotechnology 6cp
67510 Surface Processes 6cp
Select one of the following: 6cp
68320 Scanning Probe and Electron Microscopy 6cp
68415 Measurement and Analysis of Physical Processes 6cp
68414 Advanced Mechanics 6cp
68513 Optics and Nanophotonics 6cp
Total 96cp

MAJ01085 Nanotechnology
33190 Mathematical Modelling for Science 6cp
65111 Chemistry 1 6cp
32290 Statistics and Mathematics for Science 6cp
65212 Chemistry 2 6cp
68101 Foundations of Physics 6cp
33360 Mathematics for Physical Science 6cp
68201 Physics in Action 6cp
68070 Introduction to Materials 6cp
68075 Nanomaterials 6cp
63307 Physical Chemistry 1 6cp
68315 Imaging Science 6cp
68413 Quantum Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
67509 Molecular Nanotechnology 6cp
Select 12 credit points from the following options: 12cp
67509 Molecular Nanotechnology 6cp
68606 Solid-state Science and Nanodevices 6cp
68413 Quantum Physics 6cp
91126 Coral Reef Ecosystems 6cp
91370 Semi-â€œrid Ecology 6cp
91371 Forest and Mountain Ecology 6cp
91309 Biodiversity Conservation 6cp
Total 96cp

MAJ01086 Mathematics
33522 Advanced Analysis 6cp
33535 Mathematical Methods 6cp
33561 Stochastic Processes 6cp
33591 Seminar (Mathematics) 6cp
Select 24 credit points from the following options: 24cp
67509 Molecular Nanotechnology 6cp
68413 Quantum Physics 6cp
68075 Nanomaterials 6cp
68513 Optics and Nanophotonics 6cp
91270 Plant Physiology and Ecophysiology 6cp
65212 Chemistry 2 6cp
91161 Cell Biology and Genetics 6cp
91270 Plant Physiology and Ecophysiology 6cp
91161 Cell Biology and Genetics 6cp
Total 96cp

MAJ01087 Applied Chemistry
65111 Chemistry 1 6cp
65212 Chemistry 2 6cp
65202 Organic Chemistry 1 6cp
65306 Analytical Chemistry 1 6cp
65307 Physical Chemistry 1 6cp
65409 Analytical Chemistry 2 6cp
65410 Chemical Safety and Legislation 6cp
65411 Inorganic Chemistry 1 6cp
65508 Organic Chemistry 2 6cp
65509 Inorganic Chemistry 2 6cp
65606 Analytical Chemistry 3 6cp
65607 Physical Chemistry 2 6cp
Select 6 credit points from the following options: 6cp
67509 Molecular Nanotechnology 6cp
65545 Forensic Toxicology 6cp
68075 Nanomaterials 6cp
Total 78cp

MAJ01088 Applied Physics
65111 Chemistry 1 6cp
68070 Introduction to Materials 6cp
65212 Chemistry 2 6cp
68201 Physics in Action 6cp
68075 Nanomaterials 6cp
33360 Mathematics for Physical Science 6cp
68315 Imaging Science 6cp
68413 Quantum Physics 6cp
68412 Energy Science and Technology 6cp
68416 Computational Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
Select 12 credit points from the following options: 12cp
68320 Scanning Probe and Electron Microscopy 6cp
68513 Optics and Nanophotonics 6cp
67510 Surface Processes 6cp
91140 BioNanotechnology 6cp
Total 78cp

MAJ01089 Environmental Science
91107 The Biosphere 6cp
65111 Chemistry 1 6cp
91123 Biocomplexity 6cp
91154 Ecology 6cp
91110 Experimental Design and Sampling 6cp
Select one of the following: 6cp
91159 Environmental Forensics 6cp
91157 Marine Communities 6cp
91149 Geological Processes 6cp
Select one of the following: 6cp
91309 Biodiversity Conservation 6cp
68513 Marine Geosciences 6cp
91121 Aquatic Ecology 6cp
91120 GIS and Remote Sensing 6cp
91145 Environmental Protection and Management 6cp
91155 Stream and Lake Assessment 6cp
Select 6 credit points from the following options: 6cp
91126 Coral Reef Ecosystems 6cp
91370 Semi-â€œrid Ecology 6cp
91371 Forest and Mountain Ecology 6cp
91309 Biodiversity Conservation 6cp
Total 78cp

MAJ01090 Biomedical Science
65111 Chemistry 1 6cp
91161 Cell Biology and Genetics 6cp
65212 Chemistry 2 6cp
91400 Human Anatomy and Physiology 6cp
91320 Metabolic Biochemistry 6cp
91314 General Microbiology 6cp
91132 Molecular Biology 1 6cp
91300 Histology 6cp
68506 Electives B (Biomedical Science) 12cp
68509 Electives A (Biomedical Science) 12cp
Select 6 credit points from the following options: 6cp
91129 Transfusion Science 6cp
91352 Parasitology 6cp
91345 Biochemistry, Genes and Disease 6cp
91402 Anatomical Pathology 6cp
Total 78cp

MAJ01091 Nanotechnology
65111 Chemistry 1 6cp
68070 Introduction to Materials 6cp
65212 Chemistry 2 6cp
68201 Physics in Action 6cp
68075 Nanomaterials 6cp
33360 Mathematics for Physical Science 6cp
68315 Imaging Science 6cp
68413 Quantum Physics 6cp
68606 Solid-state Science and Nanodevices 6cp
67509 Molecular Nanotechnology 6cp
Select 12 credit points from the following options: 12cp
68320 Scanning Probe and Electron Microscopy 6cp
68513 Optics and Nanophotonics 6cp
67510 Surface Processes 6cp
91140 BioNanotechnology 6cp
Total 78cp
MAJ01095 Mathematics

35100 Introduction to Sample Surveys 6cp
35111 Applications of Discrete Mathematics 6cp
35140 Introduction to Quantitative Management 6cp
35212 Computational Linear Algebra 6cp
35231 Differential Equations 6cp
35232 Advanced Calculus 6cp
35241 Optimisation in Quantitative Management 6cp
35332 Regression Analysis 6cp
35363 Stochastic Models 6cp
Select 24 credit points from the following options: 24cp
35252 Mathematical Statistics 6cp
35322 Advanced Analysis 6cp
35335 Mathematical Methods 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35355 Quality Control 6cp
35356 Design and Analysis of Experiments 6cp
35361 Stochastic Processes 6cp
35383 High Performance Computing 6cp
35391 Seminar (Mathematics) 6cp
35393 Seminar (Statistics) 6cp
Total 78cp

MAJ01097 Science Management

60992 Managing Science and Scientists 12cp
Select 24 credit points from the following options: 24cp
91499 Current Topics in Science and Technology 12cp
69341 Risk Management 6cp
69345 Occupational Health and Safety Management 6cp
69311 Occupational Health and Safety in Society 3cp
69338 Biological Hazards and Toxicology 6cp
69332 Chemical Safety Management 3cp
49125 Environmental Risk Assessment 6cp
49116 Contaminated Site and Waste Remediation 6cp
91551 Ecotechnology and Climate Change 6cp
Total 48cp

MAJ01100 Applied Chemistry

This major gives students the insight into how chemical substances work and the reasons for their behaviour with a dynamic combination of practice and theory. Students gain strong practical skills and lots of laboratory experience, which is why this major is an 'applied chemistry' major.

Core study areas include analytical, environmental and toxicological chemistry, physical, organic and inorganic chemistry, chemical safety and legislation.

Students have access to sophisticated, cutting-edge technology and instruments in a modern science facility. They also learn from practising scientists and researchers.

Completion requirements

STM09682 Core subjects (Chemistry) 48cp
65509 Inorganic Chemistry 2 6cp
67305 Polymer Science 6cp
65606 Analytical Chemistry 3 6cp
67510 Surface Processes 6cp
CBK90576 Sub-major/Electives (Chemistry) 24cp
Total 96cp

MAJ01101 Applied Physics

This major enables students to learn about the interactions of energy and matter, precision measurement techniques, measuring and understanding the laws of nature and how new developments in physics are helping to expand the frontiers of technology. This major is a combination of theory and practice with lots of opportunities for practical skills and laboratory experience.

Core study areas include computational physics, electromagnetics, electronics and interfacing, energy science, optics, measurement techniques, quantum and solid-state physics.

Students have access to modern, high technology micro-structural analysis instruments, and are taught how to apply them. Students gain critical thinking skills and how to apply practical problem solving skills in a hands-on environment. They also learn how applied research progresses and the creation of new technology.

Professional recognition: Australian Institute of Physics.

Completion requirements

STM09683 Core subjects (Physics and Nanotechnology) 48cp
68416 Computational Physics 6cp
68412 Energy Science and Technology 6cp
68414 Advanced Mechanics 6cp
68415 Measurement and Analysis of Physical Processes 6cp
CBK90575 Sub-major/Electives 24cp
Total 96cp

MAJ01102 Nanotechnology

Nanotechnology is understanding how the world works at the level of atoms, molecules and applying that knowledge to make or improve more user-friendly and sustainable products, such as self-cleaning surfaces, energy-efficient window coatings or light bulbs, clear-gel sunscreens, smart materials, and targeted drug delivery systems. This is a multidisciplinary major that teaches students the valuable knowledge and skills to understand biological, physical and chemical processes at the nanoscale, through a dynamic combination of theory and practical skills.

Core study areas include materials science, nanomaterials, nanotubes, bionanotechnology, molecular nanotechnology, nanoscale sensors, nanodevices, optics, scanned probe, electron microscopy and imaging science.

Hands-on training in nanotechnology tools are a core component of this major.

Professional recognition: Australian Institute of Physics.

Completion requirements

STM09683 Core subjects (Physics and Nanotechnology) 48cp
65509 Physical Chemistry 1 6cp
67509 Molecular Nanotechnology 6cp
91140 BioNanotechnology 6cp
67510 Surface Processes 6cp
CBK90798 Sub-major/Electives 24cp
Total 96cp

MAJ01103 Biotechnology

This major teaches students the valuable skills to take advantage of and improve the biological processes of living organisms. Biotechnology scientists use these techniques and methods to create new medicine, food and organic substances through applying gene technology and other natural processes.

Core study areas include biotechnology, gene therapy, vaccine development, biobusiness and bioethics, environmental biotechnology, genetic engineering, protein and antibody engineering, and immunology.

Students learn to develop practical laboratory skills and techniques for managing hazards, intellectual property and ethical issues. They also gain professional skills and qualification in biological science and a firm basis in the industrial aspects of biotechnology. This is a comprehensive biotechnology major with a wide range of options for advanced specialisation.

Professional recognition: Australian Biotechnology Association.

Completion requirements

STM09684 Core subjects (Medical and Molecular Biology) 48cp
91335 Molecular Biology 2 6cp
91142 Biotechnology 6cp
91369 Biobusiness and Environmental Biotechnology 6cp
91144 Plant Biotechnology 6cp
91368 Bioreactors and Bioprocessing 6cp
CBK90582 Elective 4 6cp
Select 12 credit points from the following options: 12cp
91149 Plant Biotechnology 6cp
91345 Biochemistry, Genes and Disease 6cp
91352 Parasitology 6cp
91402 Anatomical Pathology 6cp
91359 Advanced Immunology 6cp
Total 96cp

MAJ01104 Biomedical Science

This major provides students with in-depth understanding of how the body works at the cellular level, what causes disease and the techniques of laboratory diagnosis of disease, which include expanding areas of molecular-based diagnostic techniques.
Students gain the underpinning knowledge and laboratory skills required to participate in research aimed at disease prevention and treatment.

Core study areas include biochemistry, clinical microbiology, haematology, histology, human anatomy and physiology, immunology, molecular biology, parasitology and pathology.

Students obtain a solid background in the biological and medical sciences, and practical experimentation. A biomedical science major provides excellent underpinning knowledge for entry into a postgraduate medicine program.

Professional recognition: Australian Institute of Medical Scientists (AIMS); this major is one of two degrees that is accredited by AIMS in Sydney.

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90484</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48cp</td>
</tr>
<tr>
<td>91350</td>
<td>Histology</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90582</td>
<td>Elective 4</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Select 36 credit points from the following options:</td>
<td></td>
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<tr>
<td>91338</td>
<td>Clinical Bacteriology</td>
<td>6cp</td>
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<tr>
<td>91355</td>
<td>Advanced Haematology</td>
<td>6cp</td>
</tr>
<tr>
<td>91344</td>
<td>Molecular Biology 2</td>
<td>6cp</td>
</tr>
<tr>
<td>91329</td>
<td>Medical and Diagnostic Biochemistry</td>
<td>6cp</td>
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<tr>
<td>91359</td>
<td>Transfusion Science</td>
<td>6cp</td>
</tr>
<tr>
<td>91352</td>
<td>Advanced Immunology</td>
<td>6cp</td>
</tr>
<tr>
<td>91345</td>
<td>Parasitology</td>
<td>6cp</td>
</tr>
<tr>
<td>91401</td>
<td>Biochemistry, Genes and Disease</td>
<td>6cp</td>
</tr>
<tr>
<td>91402</td>
<td>Anatomical Pathology</td>
<td>6cp</td>
</tr>
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<td></td>
<td>Total 96cp</td>
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</tr>
</tbody>
</table>

**MAJ01105 Medical Science**

This major focuses on human anatomy and physiology, and provides students with knowledge of the structure, function and control of the body system as well as the aetiology and pathophysiology of disease. It combines a solid grounding in key medical sciences with flexible options for specialisation.

Core study areas include anatomy and physiology, human cell biology, human pathophysiology, medical devices and diagnostics, metabolic biochemistry, microbiology, molecular biology, neuroscience and pharmacology.

Students obtain a solid background in the medical sciences and practical experimentation. The major also provides the foundation knowledge and skills for students who wish to go on to postgraduate programs such as medicine, biomedical engineering, nutrition and dietetics, complementary medicine, public health and health administration.

**Completion requirements**

<table>
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<tbody>
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<td>Core subjects (Medical and Molecular Biology)</td>
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<td>91707</td>
<td>Pharmacology 1</td>
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<td>91706</td>
<td>Neuroscience</td>
<td>6cp</td>
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<td>91703</td>
<td>Physiological Systems</td>
<td>6cp</td>
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<td>91705</td>
<td>Medical Devices and Diagnostics</td>
<td>6cp</td>
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<td>91709</td>
<td>Pharmacology 2</td>
<td>6cp</td>
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<tr>
<td>91708</td>
<td>Medical and Applied Physiology</td>
<td>6cp</td>
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<tr>
<td>91239</td>
<td>Human Pathophysiology</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90582</td>
<td>Elective 4</td>
<td>6cp</td>
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<td></td>
<td>Total 96cp</td>
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</tr>
</tbody>
</table>

**MAJ01106 Environmental Biology**

This major focuses on the foundation components of the natural systems, how these systems work, and how detrimental impacts on them can be assessed and recovered.

Core study areas include population ecology of terrestrial, marine coastal and freshwater systems, interaction of plants, animals and micro-organisms in land and aquatic environments.

Students gain a thorough understanding of the way living organisms function in terrestrial and aquatic environments. They acquire skills to detect and assess detrimental effects on their function and the environment through a dynamic combination of theory, laboratory experience and field trips.

This major places strong emphasis on field trips to places such as the Snowy Mountains, the NSW outback, Heron Island and the Great Barrier Reef.


**Completion requirements**

<table>
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</thead>
<tbody>
<tr>
<td>STM90484</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48cp</td>
</tr>
<tr>
<td>91156</td>
<td>Marine Primary Producers</td>
<td>6cp</td>
</tr>
<tr>
<td>91157</td>
<td>Marine Communities</td>
<td>6cp</td>
</tr>
<tr>
<td>CBK90577</td>
<td>Sub-major/Electives (Environmental Science)</td>
<td>24cp</td>
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<tr>
<td>91363</td>
<td>Animal Behaviour and Physiology</td>
<td>6cp</td>
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<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
<td>6cp</td>
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<td></td>
<td>Total 96cp</td>
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</tr>
</tbody>
</table>

**MAJ01107 Marine Biology**

This major focuses on how the marine environment works and how it can be better managed. Students gain a thorough understanding of the way plants, animals and micro-organisms function in marine ecosystems, including estuarine, shelf and open ocean ranging from tropical, temperate and polar environments.

Core study areas include coral reef ecosystems, environmental protection and management, fisheries resources, marine geoscience, plant physiology and ecophysiology, marine communities and animal behaviour and physiology.

Students learn these concepts and skills through a dynamic combination of theory, laboratory experiences and field trips. Students also gain skills to detect and assess detrimental impacts on these marine environments resulting from anthropogenic sources and climate changes covered.


**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>STM90484</td>
<td>Core subjects (Medical and Molecular Biology)</td>
<td>48cp</td>
</tr>
<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total 96cp</td>
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</tr>
</tbody>
</table>

**MAJ01108 Environmental Forensics**

This major is the first of its kind in Australia. It combines the new study area of environmental forensics with law.

Students learn forensic methodology to identify environmental impacts of chemicals on ecosystems, policy and regulation processes, aquatic and terrestrial ecology, environmental management and protection, field and laboratory skills to assess environmental impacts and forensic skills to obtain scientific evidence that can withstand legal inquiry and proceedings.

Core study areas include law and science subjects. The flexibility of this major allows students to develop a science specialty.

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
</tr>
</thead>
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<td>Core subjects (Medical and Molecular Biology)</td>
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<td>91156</td>
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<td>91363</td>
<td>Animal Behaviour and Physiology</td>
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<tr>
<td>91270</td>
<td>Plant Physiology and Ecophysiology</td>
<td>6cp</td>
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**MAJ01110 Mathematics**

Students gain a good understanding of the mathematical foundations of quantitative methods and modelling technologies used in such areas as finance, logistics, health and market research. Students acquire analytic skills and develop the creative, logical approach to problem solving that enables them to apply their knowledge to real-world situations. The extensive choice of specialty mathematics subjects allows students to customise their degree according to their interests.

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
<th>Credit Points</th>
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Students can also choose additional studies in other areas within science or from other faculties such as business, law or information technology.

**Completion requirements**

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<td>35336</td>
<td>Design and Analysis of Experiments</td>
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<td>Stochastic Processes</td>
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<td>35389</td>
<td>Seminar (Mathematics)</td>
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<td>Seminar (Statistics)</td>
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**Total 96cp**

**MAJ01111 Statistics**

Students gain a good understanding of mathematical statistics and its applications. The study of statistics prepares students to interpret data and to design data collection for maximum information at a given cost.

Students learn the theoretical underpinnings of the discipline as well as the practical skills that enable them to apply their knowledge in such diverse areas as market research, health or the environment.

Students can also choose additional studies in other areas within science or from other faculties such as business, law or information technology.

**Completion requirements**

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<th>Name</th>
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<td>Design and Analysis of Experiments</td>
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<td>Stochastic Processes</td>
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**Total 96cp**

**MAJ01112 Marine Biology**

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<tr>
<td>91123</td>
<td>Bicocomplexity</td>
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<td>65212</td>
<td>Chemistry 2</td>
<td>6cp</td>
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<tr>
<td>91110</td>
<td>Experimental Design and Sampling</td>
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<tr>
<td>91115</td>
<td>Ecology</td>
<td>6cp</td>
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<tr>
<td>91127</td>
<td>Marine Communities</td>
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<tr>
<td>91120</td>
<td>Plant Physiology and Ecophysiology</td>
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<tr>
<td>91161</td>
<td>Cell Biology and Genetics</td>
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<td>33116</td>
<td>Statistical Design and Analysis</td>
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<td>91121</td>
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**Total 96cp**

**MAJ01113 Environmental Forensics**

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<td>91107</td>
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**Total 96cp**

**MAJ01114 Medical Science**

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<td>91705</td>
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**Total 96cp**

**MAJ01115 Biotechnology**

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<td>91352</td>
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<td>91345</td>
<td>Biochemistry, Genes and Disease</td>
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**Total 96cp**

**MAJ01116 Mathematics**

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<td>Introduction to Analysis and Multivariable Calculus</td>
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<td>Introduction to Quantitative Management</td>
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MAJ01119 Biotechnology

- 65111 Chemistry 1 6cp
- 91161 Cell Biology and Genetics 6cp
- 65212 Chemistry 2 6cp
- 91400 Human Anatomy and Physiology 6cp
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp
- 91412 Biotechnology 6cp
- 91414 Plant Biotechnology 6cp
- 91369 Biobusiness and Environmental Biotechnology 6cp

Select one of the following: 6cp
- 91335 Molecular Biology 2 6cp
- 91359 Advanced Immunology 6cp
- 91332 Molecular Biology 1 6cp
- 91368 Bioreactors and Bioprocessing 6cp

Select 6 credit points from the following options: 6cp
- 91326 Analytical Biochemistry 6cp
- 91330 Epidemiology and Public Health Microbiology 6cp
- 91401 Introductory Haematology and Immunology 6cp

Total 78cp

MAJ01120 Medical Science

- 65111 Chemistry 1 6cp
- 91161 Cell Biology and Genetics 6cp
- 65212 Chemistry 2 6cp
- 91400 Human Anatomy and Physiology 6cp
- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp
- 91703 Physiological Systems 6cp
- 91706 Neuroscience 6cp
- 91707 Pharmacology 1 6cp
- 91705 Medical Devices and Diagnostics 6cp
- 91708 Medical and Applied Physiology 6cp
- 91709 Pharmacology 2 6cp
- 91239 Human Pathophysiology 6cp

Total 78cp

MAJ01121 Medical Biotechnology

- 91355 Microscopy and Cytometry 6cp
- 91536 Proteomics 6cp

Select 36 credit points from the following options: 36cp
- CBK90640 Elective 6cp
- 91345 Biochemistry, Genes and Disease 6cp
- 91352 Parasitology 6cp
- 91705 Medical Devices and Diagnostics 6cp
- 91368 Bioreactors and Bioprocessing 6cp
- 91707 Pharmacology 1 6cp
- 91335 Molecular Biology 2 6cp
- 91359 Advanced Immunology 6cp
- 91344 Medical and Diagnostic Biochemistry 6cp
- 91369 Biobusiness and Environmental Biotechnology 6cp
- 91357 Biotechnology Research Project A 12cp
- 91358 Biotechnology Research Project B 12cp
- 91539 Biotechnology Research Project 24cp
- 60910 Directed Study A 6cp
- 60911 Directed Study B 6cp
- CBK90682 Options 6cp

Total 48cp

MAJ01122 Physics and Advanced Materials

This major is currently not available to international students.

Completion requirements

- 68044 Characterisation of Energy Efficient Materials 6cp
- 68045 Computation Techniques in the Materials Sciences 6cp

Select one of the following: 6cp
- 68001 Advanced Physics 6cp
- 68002 Advanced Nanomaterials 6cp

Select 30 credit points from the following options: 30cp
- CBK90640 Elective 6cp
- 68101 Advanced Physics 6cp
- 68102 Advanced Nanomaterials 6cp
- 68153 Optics and Nanophotonics 6cp
- 68320 Scanning Probe and Electron Microscopy 6cp
- 68415 Measurement and Analysis of Physical Processes 6cp

68416 Computational Physics 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 68316 Applied Electronics and Interfacing 6cp
- 67509 Molecular Nanotechnology 6cp
- 68413 Quantum Physics 6cp
- 68315 Imaging Science 6cp
- 68046 Physics Research Project A 12cp
- 68047 Physics Research Project B 12cp
- 68048 Physics Research Project 24cp
- 60910 Directed Study A 6cp
- 60911 Directed Study B 6cp
- CBK90682 Options 6cp

Total 48cp

MAJ01123 Forensic Science

This major contains subjects in both the physical forensic sciences and the biological forensic sciences. The ability to successfully undertake these subjects is influenced by a student’s prior studies. Students should contact their program adviser to plan a program of study that is best suited to their background and interests.

Completion requirements

- 65034 Introduction to Forensic Science 6cp

Select 42 credit points from the following options: 42cp
- CBK90640 Elective 6cp
- 65342 Crime Scene Investigation 6cp
- 65544 Chemical Criminalistics 6cp
- 65545 Forensic Toxicology 6cp
- 35255 Forensic Statistics 6cp
- 91137 DNA Profiling 6cp
- 91138 Investigation of Human Remains 6cp
- 65412 Physical Evidence 6cp
- 65643 Chemistry and Pharmacology of Recreational Drugs 6cp
- 65644 Fire and Explosion Investigation 6cp
- 91402 Anatomical Pathology 6cp
- 65863 Expert Evidence Presentation 6cp
- 65743 Complex Forensic Cases (Chemistry) 6cp
- 91139 Complex Forensic Cases (Biology) 6cp
- 79028 Complex Forensic Cases (Law for Biology) 6cp
- 65032 Forensic Science Research Project A 12cp
- 65033 Forensic Science Research Project 24cp
- 91548 Forensic Biology Research Project A 12cp
- 91549 Forensic Biology Research Project 24cp
- 91132 Molecular Biology 1 6cp
- 65072 Forensic Science Research Project B 12cp
- 91550 Forensic Biology Research Project B 12cp
- 60910 Directed Study A 6cp
- 60911 Directed Study B 6cp

Total 48cp

MAJ01124 Mathematical and Statistical Modelling

Select 48 credit points from the following options: 48cp
- CBK90640 Elective 6cp
- 35231 Differential Equations 6cp
- 35252 Mathematical Statistics 6cp
- 35322 Advanced Analysis 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35353 Regression Analysis 6cp
This major is accredited by the Australian Computer Society at the information systems.

In the Business Information Systems Management major students learn how to use appropriate design approaches to design ICTs for all types of business activities, including customer-focused operations, maintaining relationships for knowledge-sharing, business collaboration and strategic management. Students also learn about organisation theory, accounting and project management.

Ways to simplify the use of technology in complex business activities are not well understood. With this major, students are equipped to manage the integration of ICTs into business and society, and take leadership roles in their implementation.

### Completion requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>31257</td>
<td>Information System Development Methodologies</td>
</tr>
<tr>
<td>31245</td>
<td>Business Process and IT Strategy</td>
</tr>
<tr>
<td>31258</td>
<td>Innovations for Global Relationship Management</td>
</tr>
<tr>
<td>31276</td>
<td>Networked Enterprise Architecture</td>
</tr>
<tr>
<td>31282</td>
<td>Systems Testing and Quality Management</td>
</tr>
<tr>
<td>48024</td>
<td>Applications Programming</td>
</tr>
<tr>
<td>31251</td>
<td>Data Structures and Algorithms</td>
</tr>
<tr>
<td>48440</td>
<td>Software Engineering Practice</td>
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<tr>
<td>31260</td>
<td>Interface Design</td>
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<tr>
<td>31284</td>
<td>Web Services Development</td>
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<tr>
<td>48433</td>
<td>Software Architecture</td>
</tr>
<tr>
<td>31253</td>
<td>Database Programming</td>
</tr>
<tr>
<td>31277</td>
<td>Routing and Internetworks</td>
</tr>
<tr>
<td>31252</td>
<td>Network Security</td>
</tr>
</tbody>
</table>

Total 48cp

### MAJ02044 Information Technology

This major is designed for students who have an information technology background or a keen interest in information technology. The major helps professionals develop specialised IT skills, equips people considering entry to the IT industry from other fields, or challenges the IT professional. The major offers the participant either a platform entry for those with a non-IT background or a more specialised entry for those with an IT background. The innovative programs cover growth areas such as computer graphics and gaming, data mining, e-business technology, human-centred design, interactive multimedia, internetworking and strategic IT management. Participants have the opportunity to acquire knowledge, strategies and skills that cover the applications and management of technology.

### Completion requirements

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STM90695</td>
<td>Core subjects</td>
</tr>
<tr>
<td>CBK90816</td>
<td>Choice</td>
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</tbody>
</table>

Total 24cp

### MAJ02080 Business Information Systems Management

<table>
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<td>Networked Enterprise Architecture</td>
</tr>
<tr>
<td>31282</td>
<td>Systems Testing and Quality Management</td>
</tr>
</tbody>
</table>

Total 48cp

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35355 Quality Control 6cp
35356 Design and Analysis of Experiments 6cp
35361 Stochastic Processes 6cp
35366 Numerical Methods of Finance 6cp
35457 Multivariate Statistics 6cp
35502 Seminar A 6cp
35503 Seminar B 6cp
35504 Seminar C 6cp
35505 Seminar D 6cp
35112 Mathematical Research Project A 12cp
35113 Mathematical Research Project B 12cp
35114 Mathematical Research Project C 24cp
35364 Statistics for Quantitative Finance 6cp
35365 Stochastic Calculus in Finance 6cp
35393 Seminar (Statistics) 6cp

Total 48cp

### MAJ01125 Science Management

60905 Leadership and Teamwork in Science 6cp
60906 Science in Practice 6cp
60907 Managing Science-based Enterprises 6cp
60908 Science and Industrialisation 6cp
CBK90678 Elective 12cp
Select 12 credit points from the following options:
CBK90388 Elective 12cp
CBK90643 Elective 12cp
CBK90650 Electives 12cp

Total 48cp

### MAJ01126 Environmental Sciences

CBK90656 Environmental Science choice A 36cp
CBK90657 Environmental Science choice B 36cp
CBK90232 Electives (Science UG) 24cp

Total 96cp

### MAJ01127 Medical and Molecular Biosciences

CBK90658 Medical and Molecular Sciences choice A 36cp
CBK90659 Medical and Molecular Sciences choice B 36cp
CBK90232 Electives (Science UG) 24cp

Total 96cp

### MAJ01128 Physics and Advanced Materials

CBK90660 Physics and Advanced Materials choice A 36cp
CBK90661 Physics and Advanced Materials choice B 36cp
CBK90232 Electives (Science UG) 24cp

Total 96cp

### MAJ01129 Chemical Science

CBK90662 Chemical Science choice A 36cp
CBK90663 Chemical Science choice B 36cp
CBK90232 Electives (Science UG) 24cp

Total 96cp

### MAJ01130 Marine Science and Management

91146 Topics in Australian Marine Science 6cp
91165 External Marine Study 1 6cp
91166 External Marine Study 2 6cp
Select 30 credit points from the following options:
91157 Marine Communities 6cp
91158 Fisheries Resources 6cp
66513 Marine Geosciences 6cp
91126 Coral Reef Ecosystems 6cp
91156 Marine Primary Producers 6cp
91540 Climate Change and Ecological Modelling 6cp
91541 Monitoring Ecological Variability 6cp
91545 Environment Research Project A 12cp
91546 Environment Research Project B 12cp
91547 Environment Research Project C 24cp

Total 96cp

### MAJ02041 Information Technology

This major provides the foundations of business systems analysis plus the opportunity to explore in more detail either the technical or management aspects of IT. Students completing this major are able to take an active part in the design or quite complex business information systems.

This major is accredited by the Australian Computer Society at the Associate level.

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>31061</td>
<td>Database Principles</td>
</tr>
<tr>
<td>31266</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>48023</td>
<td>Programming Fundamentals</td>
</tr>
<tr>
<td>31269</td>
<td>Business Requirements Modelling</td>
</tr>
<tr>
<td>31270</td>
<td>Networking Essentials</td>
</tr>
</tbody>
</table>
Select 18 credit points from the following options:
31268 | Web Systems |
31257 | Information System Development Methodologies |
31245 | Business Process and IT Strategy |
31258 | Innovations for Global Relationship Management |
31276 | Networked Enterprise Architecture |
31282 | Systems Testing and Quality Management |
48024 | Applications Programming |
31251 | Data Structures and Algorithms |
48440 | Software Engineering Practice |
31260 | Interface Design |
31284 | Web Services Development |
48433 | Software Architecture |
31253 | Database Programming |
31277 | Routing and Internetworks |
31252 | Network Security |

Total 48cp
MAJ02081 Data Analytics
This major integrates the mathematical and information technology foundations for developing and applying business analytics systems and is concerned with technology services. Computer and data analytics is an emerging and rapidly expanding area where mathematics and statistical methods interact with powerful information technologies to improve the flow of massive amounts of data for a business. Students learn mathematical analytics methods, contemporary statistical data mining and computational methods.

Completion requirements
35101 Introduction to Linear Dynamical Systems 6cp
35151 Introduction to Statistics 6cp
31250 Introduction to Data Analytics 6cp
41094 Analytics Capstone Project 6cp
Select 24 credit points from the following options: 24cp
31253 Database Programming 6cp
31259 Intelligent Agents 6cp
31256 Image Processing and Pattern Recognition 6cp
31000 e-Business Trading 6cp
31005 Data Mining Algorithms 6cp
31050 Programming with Patterns 6cp
31075 Object-relational Databases 6cp
32146 Data Visualisation and Visual Analytics 6cp
31243 Analytics Capstone Project B 6cp
Total 48cp

MAJ03001 Civil Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
60101 Chemistry and Materials Science 6cp
48331 Mechanics of Solids 6cp
48330 Soil Behaviour 6cp
48641 Fluid Mechanics 6cp
48340 Construction 6cp
48352 Construction Materials 6cp
48221 Engineering Computations 6cp
48320 Surveying 6cp
48362 Hydraulics and Hydrology 6cp
48360 Geotechnical Engineering 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Select 36 credit points from the following options: 36cp
STM90496 Civil stream 36cp
STM90493 Structures stream 36cp
STM90494 Construction stream 36cp
Total 120cp

MAJ03002 Civil and Environmental Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
65111 Chemistry I 6cp
48331 Mechanics of Solids 6cp
48330 Soil Behaviour 6cp
48641 Fluid Mechanics 6cp
48340 Construction 6cp
48352 Construction Materials 6cp
48521 Engineering Computations 6cp
48320 Surveying 6cp
48362 Hydraulics and Hydrology 6cp
48370 Road and Transport Engineering 6cp
48860 Pollution Control and Waste Management 6cp
48850 Environmental Planning and Law 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Total 120cp

MAJ03005 Electrical Engineering
48510 Introduction to Electrical Engineering 6cp
48441 Introductory Digital Systems 6cp
48521 Fundamentals of Electrical Engineering 6cp
48520 Electronics and Circuits 6cp
48430 Embedded C 6cp
48038 Advanced Mathematics and Physics 6cp
48530 Circuit Analysis 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
CBI90618 Thread choice 54cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Total 120cp

MAJ03007 Mechanical Engineering
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48221 Engineering Computations 6cp
60101 Chemistry and Materials Science 6cp
48620 Fundamentals of Mechanical Engineering 6cp
48621 Manufacturing Engineering 6cp
48331 Mechanics of Solids 6cp
48510 Introduction to Electrical Engineering 6cp
48641 Fluid Mechanics 6cp
48600 Mechanical Design 1 6cp
48640 Machine Dynamics 6cp
48642 Strength of Engineering Materials 6cp
48651 Thermodynamics 6cp
48660 Dynamics and Control 6cp
48650 Mechanical Design 2 6cp
48863 Advanced Manufacturing 6cp
48601 Mechanical Vibration and Measurement 6cp
48661 Heat Transfer 6cp
48670 Mechanical and Mechatronic Design 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Total 120cp

MAJ03012 Mechanical and Mechatronic Engineering
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48620 Fundamentals of Mechanical Engineering 6cp
48621 Manufacturing Engineering 6cp
48510 Introduction to Electrical Engineering 6cp
48023 Programming Fundamentals 6cp
48520 Electronics and Circuits 6cp
48331 Mechanics of Solids 6cp
48641 Fluid Mechanics 6cp
48600 Mechanical Design 1 6cp
48640 Machine Dynamics 6cp
48531 Electromechanical Automation 6cp
48642 Strength of Engineering Materials 6cp
48660 Dynamics and Control 6cp
48651 Thermodynamics 6cp
48650 Mechanical Design 2 6cp
48623 Mechatronics 2 6cp
48670 Mechanical and Mechatronic Design 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Total 120cp

MAJ03013 Civil Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
60101 Chemistry and Materials Science 6cp
48331 Mechanics of Solids 6cp
48330 Soil Behaviour 6cp
48641 Fluid Mechanics 6cp
48340 Construction 6cp
48352 Construction Materials 6cp
48320 Surveying 6cp
48362 Hydraulics and Hydrology 6cp
48370 Road and Transport Engineering 6cp
48860 Pollution Control and Waste Management 6cp
48850 Environmental Planning and Law 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
Total 120cp

Select 6 credit points from the following options: 6cp
48320 Surveying 6cp
48360 Geotechnical Engineering 6cp
48362 Hydraulics and Hydrology 6cp
Total 102cp
MAJ03014 Civil and Environmental Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48821 Ecological Engineering 6cp
65111 Chemistry 1 6cp
48320 Surveying 6cp
48321 Engineering Mechanics 6cp
48331 Mechanics of Solids 6cp
48340 Construction 6cp
48641 Fluid Mechanics 6cp
48840 Water Supply and Wastewater Engineering 6cp
48330 Soil Behaviour 6cp
48342 Structural Behaviour and Design 6cp
48850 Environmental Planning and Law 6cp
48006 Capstone Project 6cp
48881 Water and Environmental Design 6cp
48860 Pollution Control and Waste Management 6cp
48221 Engineering Computations 6cp
48362 Hydraulics and Hydrology 6cp

Total 102cp

MAJ03017 Electrical Engineering
48510 Introduction to Electrical Engineering 6cp
48511 Introductory Digital Systems 6cp
48521 Fundamentals of Electrical Engineering 6cp
48520 Electronics and Circuits 6cp
48430 Embedded C 6cp
68038 Advanced Mathematics and Physics 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
CBK90620 Thread choice 36cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp
48530 Circuit Analysis 6cp

Total 102cp

MAJ03019 Mechanical Engineering
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48621 Manufacturing Engineering 6cp
48620 Fundamentals of Mechanical Engineering 6cp
60101 Chemistry and Materials Science 6cp
48631 Mechanics of Solids 6cp
48641 Fluid Mechanics 6cp
48600 Mechanical Design 1 6cp
48510 Introduction to Electrical Engineering 6cp
48640 Machine Dynamics 6cp
48651 Thermodynamics 6cp
48642 Strength of Engineering Materials 6cp
48650 Mechanical Design 2 6cp
48670 Mechanical and Mechatronic Design 6cp
48660 Dynamics and Control 6cp
48221 Engineering Computations 6cp
48006 Capstone Project 6cp

Select 6 credit points from the following options: 6cp
48661 Heat Transfer
48663 Advanced Manufacturing
48601 Mechanical Vibration and Measurement

Total 102cp

MAJ03024 Innovation Engineering
48080 Introduction to Innovation 6cp
CBK90460 Engineering choice 60cp
CBK90471 Innovation choice 12cp
Select one of the following: 6cp
48221 Engineering Computations 6cp
48023 Programming Fundamentals 6cp

Total 84cp

MAJ03025 Civil Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
60101 Chemistry and Materials Science 6cp
48331 Mechanics of Solids 6cp
48330 Soil Behaviour 6cp
48641 Fluid Mechanics 6cp
48349 Structural Analysis 6cp
48340 Construction 6cp
48352 Construction Materials 6cp
48353 Concrete Design 6cp
48350 Environmental and Sanitation Engineering 6cp
48366 Steel and Timber Design 6cp
48389 Computer Modelling and Design 6cp
48370 Road and Transport Engineering 6cp
48221 Engineering Computations 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp

Select 12 credit points from the following options: 12cp
48320 Surveying
48360 Geotechnical Engineering
48362 Hydraulics and Hydrology

Total 114cp

MAJ03026 Civil and Environmental Engineering
48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
48362 Hydraulics and Hydrology 6cp
48821 Ecological Engineering 6cp
48320 Surveying 6cp
48340 Construction 6cp
48641 Fluid Mechanics 6cp
48331 Mechanics of Solids 6cp
48840 Water Supply and Wastewater Engineering 6cp
48330 Soil Behaviour 6cp
48850 Environmental Planning and Law 6cp
48342 Structural Behaviour and Design 6cp
48860 Pollution Control and Waste Management 6cp
48881 Water and Environmental Design 6cp
48221 Engineering Computations 6cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp

Select 12 credit points from the following options: 12cp
65111 Chemistry 1
48352 Construction Materials
48370 Road and Transport Engineering

Total 114cp

MAJ03028 Electrical Engineering
48510 Introduction to Electrical Engineering 6cp
48441 Introductory Digital Systems 6cp
48521 Fundamentals of Electrical Engineering 6cp
48520 Electronics and Circuits 6cp
48430 Embedded C 6cp
68038 Advanced Mathematics and Physics 6cp
48530 Circuit Analysis 6cp
48531 Electromechanical Automation 6cp
48540 Signals and Systems 6cp
CBK90620 Thread choice 36cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp

Total 114cp

MAJ03029 Innovation Engineering
48080 Introduction to Innovation 6cp
48081 Innovation Processes 6cp
CBK90471 Innovation choice 12cp
CBK90468 Engineering choice 84cp
Select 12 credit points from the following options: 12cp
48012 Capstone Project 12cp
48016 Capstone Project Part A 6cp
48026 Capstone Project Part B 6cp

Total 120cp

MAJ03030 Mechanical Engineering
48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48621 Manufacturing Engineering 6cp
48620 Fundamentals of Mechanical Engineering 6cp
60101 Chemistry and Materials Science 6cp
48631 Mechanics of Solids 6cp
48641 Fluid Mechanics 6cp
48510 Introduction to Electrical Engineering 6cp
48640 Machine Dynamics 6cp
48310 Introduction to Civil and Environmental Engineering 6cp
48353 Concrete Design 6cp
48350 Environmental and Sanitation Engineering 6cp
48366 Steel and Timber Design 6cp
48389 Computer Modelling and Design 6cp
48370 Road and Transport Engineering 6cp
knowledge in the fields of water resources management, hydraulics, major is to provide engineers and scientists with expert up-to-date understanding of water issues. The purpose of the Water Engineering

Water engineers and managers now require a much broader and improving rural and urban environments.

One of today’s most prominent challenges, both on a global and a local scale, is the scarcity of water. The dwindling supply of water is being caused by factors such as population growth, climate change, poor investment in infrastructure, and management problems. Water is intended to enable students to update their expertise, to appreciate the environmental implications of water schemes, and to develop management skills.

There has been a major shortage of water engineers both in Australia and abroad over the last decade so employment opportunities are vast. There are jobs available in local councils, state and federal government, non-government organisations, small and large consultancies as well as large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering, however applicants with a background in other fields of engineering and / or applied science may also apply.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

Completion requirements

MAJ03134 Civil Engineering

48310 Introduction to Civil and Environmental Engineering 6cp
48321 Engineering Mechanics 6cp
48350 Soil Behaviour 6cp
48461 Fluid Mechanics 6cp
48349 Structural Analysis 6cp
48350 Dynamics and Control 6cp
48617 Thermal Engineering 6cp
48621 Engineering Computations 6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp

Total 84cp

MAJ03139 Mechanical Engineering

48610 Introduction to Mechanical and Mechatronic Engineering 6cp
48621 Manufacturing Engineering 6cp
48620 Fundamentals of Mechanical Engineering 6cp
48617 Thermal Engineering 6cp
48331 Mechanics of Solids 6cp
48350 Dynamics and Control 6cp
48641 Fluid Mechanics 6cp
48460 Machine Dynamics 6cp
48462 Strength of Engineering Materials 6cp
48451 Thermodynamics 6cp
48460 Dynamics and Control 6cp
48465 Mechanical Design 2 6cp
48221 Engineering Computations 6cp

Total 84cp

MAJ03372 Water Engineering

One of today’s most prominent challenges, both on a global and a local scale, is the scarcity of water. The dwindling supply of water is being caused by factors such as population growth, climate change, poor investment in infrastructure, and management problems. Water engineers and managers now require a much broader understanding of water issues. The purpose of the Water Engineering major is to provide engineers and scientists with expert up-to-date knowledge in the fields of water resources management, hydraulics, and hydrology in both urban and rural environments. The program is intended to enable students to update their expertise, to appreciate the environmental implications of water schemes, and to develop management skills.

There has been a major shortage of water engineers both in Australia and abroad over the last decade so employment opportunities are vast. There are jobs available in local councils, state and federal government, non-government organisations, small and large consultancies as well as large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering, however applicants with a background in other fields of engineering and / or applied science may also apply.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

Completion requirements

MAJ03375 Local Government Engineering

The Local Government Engineering major has been designed, for the most part, for engineers, technical staff and managers who work for water boards, roads authorities, in local government or for consultancies providing services to local government.

Depending on options chosen, the course contents may include elements of NSW local government legislation, local road design, asset maintenance planning and planning for the environment.

This major is only suitable for domestic students, as it contains content that is heavily focused on specific elements of NSW legislation and planning guidelines.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects. Students not wishing to complete any management subjects should consider the combined major in Local Government Engineering and Environmental Engineering.

Completion requirements

MAJ03378 Structural Engineering

The Structural Engineering major offers a unique balance of analysis and design subjects focusing on large structures such as high rise buildings, large bridges, major industrial developments and tunnels. It is most suitable for those with a civil engineering background who would like to work on large structures. Completing this major makes you employable by structural consulting firms and other large developers.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

Completion requirements

MAJ03374 Environmental Engineering
MAJ03379 Software Engineering

In the modern world, software engineers play important roles in many facets of society, from the medical arena to the gaming world. Software engineering skills are very portable, so your qualifications can take you wherever the world. Currently there is a global shortage of software engineers with system design capabilities. The Software Engineering major teaches you about software analysis and design, software architecture and web technologies. It is suitable for engineers with a background in ICT, however those from other fields of engineering can use this major as a stepping stone into ICT.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

Completion requirements

49002 Managing Projects 6cp
CBK00331 Subject choice (Group A) 18cp
Select 24 credit points from the following options: 24cp
49263 Software Analysis and Design 6cp
49262 Web Technologies 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp
49227 Wireless Sensor Networks 6cp
Total 48cp

MAJ03380 Energy Planning and Policy

Most countries in the world, both developed and developing, view energy issues as a high priority. Concerns about global warming, sustainability issues, etc., reinforce the significance and immediacy of energy issues.

Effective planning and policy initiatives are required to identify energy systems that are technically, economically, environmentally and socially feasible and responsible in their approach to the energy needs of society.

The Energy Planning and Policy major contributes to the training and professional development of people working or preparing to work in energy utilities, energy companies, environmental organisations, government departments, consulting groups and other national and international organisations dealing in energy and environmental matters, both in developed and developing countries.

Completion requirements

49021 Evaluation of Infrastructure Investments 6cp
49024 Energy Modelling 6cp
49706 Regulatory Economics 6cp
49026 Electricity Sector Planning and Restructuring 6cp
Select 24 credit points from the following options: 24cp
49025 Methods for Energy Analysis 6cp
49027 Energy Demand Analysis and Forecasting 6cp
49028 Policy and Planning of Energy Conservation 6cp
49029 Environmental Policy for Energy Systems 6cp
49022 Energy Resources and Technology 6cp
49023 Energy and Environmental Economics 6cp
49701 Gas Sector Planning 6cp
49702 Gas Distribution Technology and Management 6cp
49703 Selected Topics (Energy Pricing) 6cp
Total 48cp

MAJ03382 Telecommunications Engineering

Telecommunications is an integral part of modern society. This major allows recent graduates and people already in the workforce to deepen and/or broaden skills and knowledge in various areas with telecommunication engineering. It also allows candidates who do not have a telecommunication background to move into this growing area. There is an emphasis on the network, transport and application layers and the ability to analyse, design and manage massive scale and non-homogeneous complex inter-networks which simultaneously service the diverse needs of multiple classes of traffic.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

Completion requirements

49202 Communication Protocols 6cp
49238 Telecommunications Networks Management 6cp
CBK00331 Subject choice (Group A) 18cp
CBK00230 Elective 6cp
Select 12 credit points from the following options: 12cp
49201 Integrated Services Networks 6cp
49215 Telecommunications Industry Management 6cp
49249 Telecommunications Engineering Review 6cp
49048 Wireless Networking Technologies 6cp
49262 Web Technologies 6cp
49203 Telecommunications Signal Processing 6cp
49110 3G Mobile Communication Systems 6cp
32001 Mobile Commerce Technologies 6cp
32118 Mobile Communications and Computing 6cp
42902 Multi Protocol Label Switching 6cp
32555 Fundamentals of Software Development 6cp
32570 Enterprise Software Architecture and Middleware 6cp
Total 48cp

MAJ03412 Civil and Environmental Engineering

48310 Introduction to Civil and Environmental Engineering 6cp
48320 Surveying 6cp
48321 Engineering Mechanics 6cp
48340 Construction 6cp
48331 Mechanics of Solids 6cp
48840 Water Supply and Wastewater Engineering 6cp
48641 Fluid Mechanics 6cp
48330 Soil Behaviour 6cp
48352 Construction Materials 6cp
48850 Environmental Planning and Law 6cp
48821 Ecological Engineering 6cp
6511 Chemistry 1 6cp
4821 Engineering Computations 6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
Total 84cp

MAJ03413 Electrical Engineering

48510 Introduction to Electrical Engineering 6cp
48441 Introductory Digital Systems 6cp
48521 Fundamentals of Electrical Engineering 6cp
48520 Electronics and Circuits 6cp
48430 Embedded C 6cp
48531 Electromechanical Automation 6cp
48530 Circuit Analysis 6cp
Awarding of this major on an academic transcript also requires the completion of three engineering management subjects in addition to the technical subjects.

**Completion requirements**

CBK90331 Subject choice (Group A)  
CBK90230 Elective  
Select 24 credit points from the following options:  
49002 Managing Projects  
49307 Internal Combustion Engines  
49312 Advanced Flow Modelling  
49316 Materials Handling  
49321 Energy Conversion  
49322 Airconditioning  
49325 Computer-aided Mechanical Design  
49328 Turbomachines  
49049 Air and Noise Pollution  
49928 Design Optimisation for Manufacturing  
49330 Sensors and Signal Processing  
49329 Control of Mechatronic Systems  
Select 24 credit points from the following options:  
49021 Evaluation of Infrastructure Investments  
49024 Energy Modelling  
CBK90335 Major core subject choice  
Total 48cp

**MAJ03414 Aerospace Engineering**

Introduction to Mechanical and Mechatronic Engineering  
Aerospace Operations: Overview of the Aviation Industry  
Fundamentals of Mechanical Engineering  
Chemistry and Materials Science  
Airline Operations  
Managing Aerospace Processes  
Fluid Mechanics  
Machine Dynamics  
Introduction to Electrical Engineering  
Thermodynamics  
Engineering Project Management  
Aerospace Design Processes  
Engineering Computations  
Total 78cp

**MAJ03415 Manufacturing Engineering and Management**

The Manufacturing Engineering and Management major allows students to upgrade skills and knowledge gained from an undergraduate mechanical/manufacturing engineering degree to advanced areas of mechanical engineering as well as manufacturing engineering and management.

Students can choose from a diverse range of subjects covering a number of different aspects, including:

- operation of factories including material handling, air-conditioning, project management, and air and noise pollution
- advanced design and analysis of manufacturing processes including CAD/CAM, optimal design and decision-making, flow modelling, vibration analysis, internal combustion engines, turbine machines, and
- quality and operations management systems, IT and innovation management in manufacturing.

This major is widely recognised and aims to educate technical specialists and managers of tomorrow in manufacturing technologies and management, and prepare them for the challenging demands of leadership roles in manufacturing and management in a global economy.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

**Completion requirements**

CBK90230 Elective  
Select 24 credit points from the following options:  
49048 Wireless Networking Technologies  
49261 Biomedical Instrumentation  
49262 Web Technologies  
49263 Software Analysis and Design  
49274 Advanced Robotics  
49275 Neural Networks and Fuzzy Logic  
32603 Systems Quality Management  
32555 Fundamentals of Software Development  
49330 Control of Mechatronic Systems  
49330 Sensors and Signal Processing  
Select 12 credit points from the following options:  
49021 Evaluation of Infrastructure Investments  
49024 Energy Modelling  
CBK90335 Major core subject choice  
Total 24cp

**MAJ03421 Energy Planning and Policy**

Most countries in the world, both developed and developing, view energy issues as a high priority. Concerns about global warming, sustainability issues and the like reinforce the significance and immediacy of energy issues.

Effective planning and policy initiatives are required to identify energy systems that are technically, economically, environmentally and socially feasible and responsible in their approach to the energy needs of society.

The Energy Planning and Policy major contributes to the training and professional development of people working or preparing to work in energy utilities, energy companies, environmental organisations, government departments, consulting groups and other national and international organisations dealing in energy and environmental matters, both in developed and developing countries.

**Completion requirements**

Select one of the following:  
49021 Evaluation of Infrastructure Investments  
49024 Energy Modelling  
CBK90335 Major core subject choice  
Total 24cp

**MAJ03422 Local Government Engineering**

The Local Government Engineering major has been designed, for the most part, for engineers, technical staff and managers who work for water boards, roads authorities, in local government or for consultancies providing services to local government.

Depending on options chosen, the contents may include elements of NSW local government legislation, local road design, asset maintenance management and planning for the environment.
This major is only suitable for domestic students as it contains content that is heavily focused on specific elements of NSW legislation and planning guidelines.

**Completion requirements**

CBK90230 Elective 6cp
Select 18 credit points from the following options: 18cp
49102 Traffic and Transportation 6cp
49258 Pavement Analysis and Design 6cp
4916 Road Engineering Practice 6cp
49107 Urban Stormwater Design 6cp
49108 Local Government Powers and Practice 6cp
49121 Environmental Assessment and Planning 6cp
49126 Environmental Management of Land 6cp
Total 24cp

**MAJ03426 Manufacturing Engineering and Management**

The Manufacturing Engineering and Management major allows students to upgrade skills and knowledge gained from an undergraduate mechanical/manufacturing engineering degree to advanced areas of mechanical engineering as well as manufacturing engineering and management.

Students can choose from a diverse range of subjects covering a number of different aspects, including:

- operation of factories including material handling, air-conditioning, project management, air and noise pollution
- advanced design and analysis of manufacturing processes including CAD/CAM, optimal design and decision-making, flow modelling, vibration analysis, internal combustion engines, turbine machines, and
- quality and operations management systems, IT and innovation management in manufacturing.

This major is widely recognised and aims to educate technical specialists and managers of tomorrow in manufacturing technologies and management, and prepare them for the challenging demands of leadership roles in manufacturing and management in a global economy.

**Completion requirements**

CBK90230 Elective 6cp
Select 18 credit points from the following options: 18cp
49002 Managing Projects 6cp
49007 Advanced Flow Modelling 6cp
49316 Materials Handling 6cp
49321 Energy Conversion 6cp
49322 Airconditioning 6cp
49325 Computer-aided Mechanical Design 6cp
49328 Turbomachines 6cp
49049 Air and Noise Pollution 6cp
49047 Finite Element Analysis 6cp
49102 Traffic and Transportation 6cp
49107 Urban Stormwater Design 6cp
49121 Environmental Assessment and Planning 6cp
49126 Environmental Management of Land 6cp
Total 24cp

**MAJ03425 Software Engineering**

In the modern world, software engineers play important roles in many facets of society; from the medical arena to the gaming world. Software engineering skills are very portable, so your qualifications can take you around the world. Currently there is a global shortage of software engineers with system design capabilities.

The Software Engineering major teaches you about software analysis and design, software architecture and web technologies. It is suitable for engineers with a background in ICT, however those from other fields of engineering can use this major as a stepping stone into ICT.

**Completion requirements**

Select one of the following:
49001 Judgment and Decision Making 6cp
49013 Managing Information Technology in Engineering 6cp
49016 Technology and Innovation Management 6cp
49306 Quality and Operations Management Systems 6cp
32555 Fundamentals of Software Development 6cp
Select 12 credit points from the following options: 12cp
49002 Managing Projects 6cp
49263 Software Analysis and Design 6cp
49262 Web Technologies 6cp
32603 Systems Quality Management 6cp
Total 24cp

**MAJ03426 Structural Engineering**

The Structural Engineering major offers a unique balance of analysis and design subjects focusing on large structures such as high rise buildings, large bridges, major industrial developments and tunnels. It is most suitable for those with a civil engineering background who would like to work on large structures. Completing this major makes you employable by structural consulting firms and other large developers.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

CBK90230 Elective 6cp
Select 18 credit points from the following options: 18cp
49102 Traffic and Transportation 6cp
49131 Bridge Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49002 Managing Projects 6cp
49115 Facade Engineering 6cp
49118 Applied Geotechnics 6cp
49254 Advanced Soil Mechanics and Foundation Design 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
49135 Wind Engineering 6cp
49143 Civil Engineering Review 1 6cp
49151 Concrete Technology and Practice 6cp
Total 24cp

**MAJ03427 Telecommunication Networks**

Telecommunications is an integral part of modern society. This major allows recent graduates and people already in the workforce to deepen and/or broaden skills and knowledge in various areas with telecommunication engineering. It also allows candidates who do not have a telecommunication background to move into this growing area. There is an emphasis on the network, transport and application layers and the ability to analyse, design and manage massive scale and non-homogeneous complex inter-networks which simultaneously service the diverse needs of multiple classes of traffic.

**Completion requirements**

Select one of the following:
49202 Communication Protocols 6cp
49238 Telecommunication Networks Management 6cp
CBK90356 Major core subject choice 6cp
CBK90230 Elective 6cp
CBK90357 Major subject choice 6cp
Total 24cp

**MAJ03428 Telecommunications Engineering**

Telecommunications is an integral part of modern society. This major allows recent graduates and people already in the workforce to deepen and/or broaden skills and knowledge in various areas with telecommunication engineering. In particular, there is a strong emphasis on wireless forms of communication engineering, including satellite and cellular mobiles. Candidates must have completed previous undergraduate studies in telecommunications to gain entry to this major, as it requires a solid understanding of signal theory, signals and systems, modulation and coding, as well as propagation. For candidates who want to move into the telecommunications area and do not meet the above criteria, there is another major called Telecommunication Networks that may be suitable for your needs.
Completion requirements

Select one of the following: 6cp
49215 Telecommunications Industry Management 6cp
49205 Transmission Systems 6cp
CBK90230 Elective 6cp
CBK90358 Major subject choice 12cp
Total 24cp

MAJ03429 Water Engineering

One of today’s most prominent challenges, both on a global and a local scale, is the scarcity of water. The dwindling supply of water is being caused by factors such as population growth, climate change, poor investment in infrastructure, and management problems. Water engineers are looking for solutions to this water crisis as well as working on other important issues such as protecting ecosystems, and improving rural and urban environments.

Water engineers and managers now require a much broader understanding of water issues. The purpose of this major is to provide engineers and scientists with expert, up-to-date knowledge in the fields of water resources management, hydraulics, and hydrology in both urban and rural environments. It is intended to enable students to update their expertise, to appreciate the environmental implications of water schemes, and to develop management skills.

There has been a major shortage of water engineers both in Australia and abroad over the last decade so employment opportunities are vast. There are jobs available in local councils, state and federal government, non-government organisations, small and large consultancies as well as large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering, however applicants with a background in other fields of engineering and/or applied science may also apply.

This major may not be offered on a full-time basis every semester.

Completion requirements

CBK90230 Elective 6cp
Select 18 credit points from the following options: 18cp
49107 Urban Stormwater Design 6cp
49126 Environmental Management of Land 6cp
49285 Emergency Management 6cp
49109 Engineered Natural Water Treatment Systems 6cp
49116 Contaminated Site and Waste Remediation 6cp
49122 Ecology and Sustainability 6cp
49255 Catchment Modelling 6cp
49256 Flood Estimation 6cp
49117 Floodplain Risk Management in NSW 6cp
Total 24cp

MAJ03430 Computer Control Engineering

Computer control engineering involves the use of computers to control real-time applications in areas such as instrumentation automation for manufacturing, biomedical and power applications. Computer control engineers combine control, electronics, software and computer systems to design innovative solutions for industry.

The Computer Control Engineering major offers subjects which teach you about the brains behind machines, how to design systems for computer or biomedical applications, the design of artificial intelligence, and more.

The knowledge you gain prepares you for work in many industries involving instrumentation and control, electronics, biomedical engineering and power systems. Background knowledge in Electrical Engineering and Computer Systems will prepare you for this course, however it is not a requisite.

Note: the listing of this major on your academic transcript requires completion of three engineering management subjects in addition to the technical subjects.

Completion requirements

CBK90331 Subject choice (Group A) 18cp
CBK90230 Elective 6cp
CBK90478 Computer Control choice 12cp
CBK90531 Computer Systems choice 12cp
Total 48cp

MAJ03431 Telecommunications Engineering and Telecommunication Networks

This major allows students who have a solid background in telecommunications to deepen technical skills and knowledge. It is effectively a superset of the Telecommunication Engineering major and the Telecommunication Networks major, without the requirement to complete any broadening or engineering management subjects. This major is suitable for students who want to go on to highly technical careers in the telecommunication industry, or in research and development.

Completion requirements

49202 Communication Protocols 6cp
49238 Telecommunication Networks Management 6cp
49215 Telecommunications Industry Management 6cp
49205 Transmission Systems 6cp
Select 24 credit points from the following options: 24cp
49201 Integrated Services Networks 6cp
49203 Telecommunications Signal Processing 6cp
49048 Wireless Networking Technologies 6cp
49099 GSM, GPRS and EDGE Technologies 6cp
49223 Satellite Communication Systems 6cp
49262 Web Technologies 6cp
49110 3G Mobile Communication Systems 6cp
49202 Interior Routing and High Availability 6cp
49203 Multi Protocol Label Switching 6cp
32555 Fundamentals of Software Development 6cp
32570 Enterprise Software Architecture and Middleware 6cp
Total 48cp

MAJ03432 Software Engineering

In the modern world, software engineers play important roles in many facets of society, from the medical arena to the gaming world. Software engineering skills are very portable, so your qualifications can take you around the world. Currently there is a global shortage of software engineers with system design capabilities.

The Software Engineering major teaches you about software analysis and design, software architecture and web technologies. It is suitable for engineers with a background in ICT, however those from other fields of engineering can use this major as a stepping stone into ICT.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

Completion requirements

Select 24 credit points from the following options: 24cp
49262 Web Technologies 6cp
49263 Software Analysis and Design 6cp
32603 Systems Quality Management 6cp
32555 Fundamentals of Software Development 6cp
49227 Wireless Sensor Networks 6cp
Total 24cp

MAJ03433 Structural Engineering

The Structural Engineering major offers a unique balance of analysis and design subjects focusing on large structures such as high rise buildings, large bridges, major industrial developments and tunnels.

It is most suitable for those with a civil engineering background who would like to work on large structures. Completing this major makes you employable by structural consulting firms and other large developers.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

Completion requirements

Select 24 credit points from the following options: 24cp
49047 Finite Element Analysis 6cp
49131 Bridge Design 6cp
49134 Structural Dynamics and Earthquake Engineering 6cp
49136 Application of Timber in Engineering Structures 6cp
49150 Prestressed Concrete Design 6cp
49002 Managing Projects 6cp
49115 Facade Engineering 6cp
49119 Problematic Soils and Ground Improvement Techniques 6cp
Telecommunications is an integral part of modern society. This major allows recent graduates and people already in the workforce to deepen and/or broaden skills and knowledge in various areas with telecommunication engineering. It also allows candidates who do not have a telecommunication background to move into this growing area. There is an emphasis on the network, transport and application layers and the ability to analyse, design and manage massive scale and non-homogeneous complex inter-networks which simultaneously service the diverse needs of multiple classes of traffic.

Awardsing of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

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<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
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<tbody>
<tr>
<td>49202</td>
<td>Communication Protocols</td>
<td>6cp</td>
</tr>
<tr>
<td>49238</td>
<td>Telecommunication Networks Management</td>
<td>6cp</td>
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<tr>
<td>Select 12 credit points from the following options:</td>
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<tr>
<td>49201</td>
<td>Integrated Services Networks</td>
<td>6cp</td>
</tr>
<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
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<tr>
<td>49048</td>
<td>Wireless Networking Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49262</td>
<td>Web Technologies</td>
<td>6cp</td>
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<tr>
<td>49203</td>
<td>Telecommunications Signal Processing</td>
<td>6cp</td>
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<tr>
<td>49110</td>
<td>3G Mobile Communication Systems</td>
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<td>32001</td>
<td>Mobile Commerce Technologies</td>
<td>6cp</td>
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<tr>
<td>32118</td>
<td>Mobile Communications and Computing</td>
<td>6cp</td>
</tr>
<tr>
<td>49290</td>
<td>Interior Routing and High Availability</td>
<td>6cp</td>
</tr>
<tr>
<td>49293</td>
<td>Multi Protocol Label Switching</td>
<td>6cp</td>
</tr>
<tr>
<td>32555</td>
<td>Fundamentals of Software Development</td>
<td>6cp</td>
</tr>
<tr>
<td>32570</td>
<td>Enterprise Software Architecture and Middleware</td>
<td>6cp</td>
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</table>

**MAJ03435 Telecommunications Engineering**

Telecommunications is an integral part of modern society. This major allows recent graduates and people already in the workforce to deepen and/or broaden skills and knowledge in various areas with telecommunication engineering. In particular, there is a strong emphasis on wireless forms of communication engineering, including satellite and cellular mobiles. Candidates must have completed previous undergraduate studies in telecommunications to gain entry to this major, if it requires a solid understanding of signal theory, signals and systems, modulation and coding, as well as propagation. For candidates who want to move into the telecommunications area and do not meet the above criteria, there is another major called Telecommunication Networks that may be suitable for your needs.

Awardsing of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>49205</td>
<td>Transmission Systems</td>
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<tr>
<td>49215</td>
<td>Telecommunications Industry Management</td>
<td>6cp</td>
</tr>
<tr>
<td>Select 12 credit points from the following options:</td>
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<td></td>
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<tr>
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<td>49099</td>
<td>GSM, GPRS and EDGE Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>49203</td>
<td>Telecommunications Signal Processing</td>
<td>6cp</td>
</tr>
<tr>
<td>49223</td>
<td>Satellite Communications Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49249</td>
<td>Telecommunications Engineering Review</td>
<td>6cp</td>
</tr>
<tr>
<td>49110</td>
<td>3G Mobile Communication Systems</td>
<td>6cp</td>
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</tbody>
</table>

**MAJ03436 Water Engineering**

One of today’s most prominent challenges, both on a global and a local scale is the scarcity of water. The dwindling supply of water is being caused by factors such as population growth, climate change, poor investment in infrastructure, and management problems. Water engineers are looking for solutions to this water crisis as well as working on other important issues such as protecting eco-systems, and improving rural and urban environments.

Water engineers and managers now require a much broader understanding of water issues. The purpose of the Water Engineering major is to provide engineers and scientists with expert up-to-date knowledge in the fields of water resources management, hydraulics, and hydrology in both urban and rural environments. It is intended to enable students to update their expertise, to appreciate the environmental implications of water schemes, and to develop management skills. There has been a major shortage of water engineers both in Australia and abroad over the last decade so employment opportunities are vast. There are jobs available in local councils, state and federal government, non-government organisations, small and large consultancies as well as large multinational firms. This major is mostly suited to applicants who have an undergraduate degree in civil engineering, however applicants with a background in other fields of engineering and/or applied science may also apply. 

Awardsing of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49285</td>
<td>Emergency Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49116</td>
<td>Contaminated Site and Waste Remediation</td>
<td>6cp</td>
</tr>
<tr>
<td>49255</td>
<td>Catchment Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>49256</td>
<td>Flood Estimation</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td>Total 24 credit points</td>
<td></td>
</tr>
</tbody>
</table>

**MAJ03437 Telecommunications Engineering and Telecommunication Networks**

Computer control engineering involves the use of computers to control real-time applications in areas such as instrumentation automation for manufacturing, biomedical and power applications. Computer control engineers combine control, electronics, software and computer systems to design innovative solutions for industry. The Computer Control Engineering major offers subjects which teach you about the brains behind machines, how to design systems for computer or biomedical applications, the design of artificial intelligence and more.

The knowledge you gain prepares you for work in many industries involving instrumentation and control, electronics, biomedical engineering and power systems. Background knowledge in electrical engineering and computer systems will prepare you for this major; however it is not a requisite.

Awardsing of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>CBK09047</td>
<td>Computer Control choice</td>
<td>12cp</td>
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<tr>
<td>CBK09051</td>
<td>Computer Systems choice</td>
<td>12cp</td>
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<td>Total 24 credit points</td>
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</tbody>
</table>

**MAJ03439 Energy Planning and Policy**

Most countries in the world, both developed and developing, view energy issues as a high priority. Concerns about global warming, sustainability issues and the like reinforce the significance and immediacy of energy issues. Effective planning and policy initiatives are required to identify energy systems that are technically, economically, environmentally and socially feasible and responsible in their approach to the energy needs of society.
The Energy Planning and Policy major contributes to the training and professional development of people working or preparing to work in energy utilities, energy companies, environmental organisations, government departments, consulting groups and other national and international organisations dealing in energy and environmental matters, both in developed and developing countries.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49108</td>
<td>Local Government Powers and Practice</td>
<td>6cp</td>
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<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
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<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
<tr>
<td>49123</td>
<td>Waste and Pollution Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 24 credit points from the following options: 24cp

**Total 48cp**

**MAJ03443 Local Government Engineering and Environmental Engineering**

This combination major allows candidates to learn technical skills and knowledge from both the Local Government engineering and Environmental Engineering areas in the Master of Engineering Studies, without the requirement of needing to complete management subjects as is the case with the single majors.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49049</td>
<td>Air and Noise Pollution</td>
<td>6cp</td>
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<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49108</td>
<td>Local Government Powers and Practice</td>
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<td>49123</td>
<td>Waste and Pollution Management</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 24 credit points from the following options: 24cp

**Total 48cp**

**MAJ03444 Enterprise Systems Development**

This major introduces the practice of creating software applications and is concerned with technology building. Students learn how to build software by applying technologies and practice from computer science, project management and other fields to produce business solutions with known characteristics.

Students also learn how to direct their programming skills to develop programs and systems that deliver the functionality and meet the quality requirements needed to deliver business solutions.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>31251</td>
<td>Data Structures and Algorithms</td>
<td>6cp</td>
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<tr>
<td>31260</td>
<td>Interface Design</td>
<td>6cp</td>
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<tr>
<td>31281</td>
<td>Systems Development Project</td>
<td>12cp</td>
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</tbody>
</table>

Select 12 credit points from the following options: 12cp

**Total 48cp**

**MAJ03445 Internetworking and Applications**

This major provides the necessary knowledge and skills in network design and application development and is concerned with technology services.

Students learn the hows and whys of Internet design - its architecture, protocols and components as well as the enabling software tools and programming methods to achieve a well-designed, secure network.

Businesses and users now require services on demand, network information security, user/service mobility and quality of service. This major addresses these issues along with network and protocol design principles through two major thrusts, designing future networks and developing practical applications and services.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>31277</td>
<td>Routing and Internetworks</td>
<td>6cp</td>
</tr>
<tr>
<td>31275</td>
<td>Mobile Networking</td>
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<td>31284</td>
<td>Web Services Development</td>
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<tr>
<td>31246</td>
<td>Network Design</td>
<td>6cp</td>
</tr>
<tr>
<td>31252</td>
<td>Network Security</td>
<td>6cp</td>
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</tbody>
</table>

**Total 48cp**

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**MAJ03442 Manufacturing Engineering and Management**

The Manufacturing Engineering and Management major allows students to upgrade skills and knowledge gained from an undergraduate mechanical/manufacturing engineering degree to advanced areas of mechanical engineering as well as manufacturing engineering and management.

Students can choose from a diverse range of subjects covering a number of different aspects, including:

- operation of factories including material handling, air-conditioning, project management, air and noise pollution
- advanced design and analysis of manufacturing processes including CAD/CAM, optimal design and decision-making, flow modelling, vibration analysis, internal combustion engines, turbine machines, and
- quality and operations management systems, IT and innovation management in manufacturing.

This major is widely recognised and aims to educate technical specialists and managers of tomorrow in manufacturing technologies and management, and prepare them for the challenging demands of leadership roles in manufacturing and management in a global economy.

**Completion requirements**

Select 24 credit points from the following options: 24cp

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>31242</td>
<td>Advanced Internet Programming</td>
<td>6cp</td>
</tr>
<tr>
<td>41005</td>
<td>Cloud-based Enterprise Application Development</td>
<td>6cp</td>
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</tbody>
</table>

**Total 48cp**

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**MAJ03440 Local Government Engineering**

The Local Government Engineering major has been designed, for the most part, for engineers, technical staff and managers who work for water boards, roads authorities, in Local Government or for consultancies providing services to Local Government.

Depending on options chosen, the contents may include elements of NSW Local Government legislation, local road design, asset maintenance management and planning for the environment.

This major is only suitable for domestic students, as it contains content that is heavily focused on specific elements of NSW legislation and planning guidelines.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

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<tbody>
<tr>
<td>49021</td>
<td>Evaluation of Infrastructure Investments</td>
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<tr>
<td>49024</td>
<td>Energy Modelling</td>
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<tr>
<td>49076</td>
<td>Regulatory Economics</td>
<td>6cp</td>
</tr>
<tr>
<td>49026</td>
<td>Electricity Sector Planning and Restructuring</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Total 24cp**

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**Businesses and users now require services on demand, network information security, user/service mobility and quality of service. This major addresses these issues along with network and protocol design principles through two major thrusts, designing future networks and developing practical applications and services.**

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<tr>
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<td>Air and Noise Pollution</td>
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<td>49102</td>
<td>Traffic and Transportation</td>
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</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49108</td>
<td>Local Government Powers and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49121</td>
<td>Environmental Assessment and Planning</td>
<td>6cp</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Total 48cp**

---

**MAJ03443 Local Government Engineering and Environmental Engineering**

This combination major allows candidates to learn technical skills and knowledge from both the Local Government engineering and Environmental Engineering areas in the Master of Engineering Studies, without the requirement of needing to complete management subjects as is the case with the single majors.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>49049</td>
<td>Air and Noise Pollution</td>
<td>6cp</td>
</tr>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6cp</td>
</tr>
<tr>
<td>49106</td>
<td>Road Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>49107</td>
<td>Urban Stormwater Design</td>
<td>6cp</td>
</tr>
<tr>
<td>49122</td>
<td>Ecology and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49125</td>
<td>Environmental Risk Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>49127</td>
<td>On-site Water and Wastewater Treatment</td>
<td>6cp</td>
</tr>
<tr>
<td>49109</td>
<td>Engineered Natural Water Treatment Systems</td>
<td>6cp</td>
</tr>
</tbody>
</table>

**Total 48cp**

---

**MAJ03444 Enterprise Systems Development**

This major introduces the practice of creating software applications and is concerned with technology building. Students learn how to build software by applying technologies and practice from computer science, project management and other fields to produce business solutions with known characteristics.

Students also learn how to direct their programming skills to develop programs and systems that deliver the functionality and meet the quality requirements needed to deliver business solutions.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>48024</td>
<td>Applications Programming</td>
<td>6cp</td>
</tr>
<tr>
<td>31251</td>
<td>Data Structures and Algorithms</td>
<td>6cp</td>
</tr>
<tr>
<td>48440</td>
<td>Software Engineering Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>31260</td>
<td>Interface Design</td>
<td>6cp</td>
</tr>
<tr>
<td>31281</td>
<td>Systems Development Project</td>
<td>12cp</td>
</tr>
</tbody>
</table>

Select 12 credit points from the following options: 12cp

**Total 48cp**

---

**MAJ03445 Internetworking and Applications**

This major provides the necessary knowledge and skills in network design and application development and is concerned with technology services.

Students learn the hows and whys of Internet design - its architecture, protocols and components as well as the enabling software tools and programming methods to achieve a well-designed, secure network.

Businesses and users now require services on demand, network information security, user/service mobility and quality of service. This major addresses these issues along with network and protocol design principles through two major thrusts, designing future networks and developing practical applications and services.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>31277</td>
<td>Routing and Internetworks</td>
<td>6cp</td>
</tr>
<tr>
<td>31275</td>
<td>Mobile Networking</td>
<td>6cp</td>
</tr>
<tr>
<td>31284</td>
<td>Web Services Development</td>
<td>6cp</td>
</tr>
<tr>
<td>31246</td>
<td>Network Design</td>
<td>6cp</td>
</tr>
<tr>
<td>31252</td>
<td>Network Security</td>
<td>6cp</td>
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</table>

**Total 48cp**

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---
Select 12 credit points from the following options:  12cp
31242 Advanced Internet Programming  6cp
31283 Wide Area Networks and Virtual LANs  6cp
31285 Mobile Applications Development  6cp
31254 e-Commerce  6cp
31274 Network Management  6cp
Select one of the following:  6cp
31261 Internetworking Project  6cp
31091 Mobile Computing Project  6cp
31748 Programming on the Internet  6cp
31338 Network Servers  6cp
Total 48cp

MAJ03446 ICT Engineering
48410 Introduction to ICT Engineering  6cp
48023 Programming Fundamentals  6cp
48441 Introductory Digital Systems  6cp
48510 Introduction to Electrical Engineering  6cp
48541 Signal Theory  6cp
48720 Network Fundamentals  6cp
48471 ICT Analysis  6cp
48481 ICT Design  6cp
STM90652 Capstone Project  12cp
48210 Interrogating Technology: Sustainability, Environment and Social Change  6cp
Select 48 credit points from the following options:  48cp
SMJ03040 Software  48cp
SMJ03043 Computer Systems  48cp
SMJ03046 Telecommunications  48cp
CBK90361 Software option  18cp
CBK90362 Digital Electronics option  18cp
CBK90363 Embedded Systems option  18cp
CBK90364 Signals option  18cp
CBK90365 Networks option  18cp
CBK90367 ICT choice  12cp
Total 114cp

MAJ03447 ICT Engineering
48410 Introduction to ICT Engineering  6cp
48023 Programming Fundamentals  6cp
48441 Introductory Digital Systems  6cp
48510 Introduction to Electrical Engineering  6cp
48541 Signal Theory  6cp
48720 Network Fundamentals  6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change  6cp
Select 42 credit points from the following options:  42cp
SMJ03039 Software  42cp
SMJ03042 Computer Systems  42cp
SMJ03045 Telecommunications  42cp
CBK90361 Software option  18cp
CBK90362 Digital Electronics option  18cp
CBK90363 Embedded Systems option  18cp
CBK90364 Signals option  18cp
CBK90365 Networks option  18cp
CBK90368 ICT choice  6cp
Total 84cp

MAJ03448 ICT Engineering
48410 Introduction to ICT Engineering  6cp
48023 Programming Fundamentals  6cp
48441 Introductory Digital Systems  6cp
48510 Introduction to Electrical Engineering  6cp
48541 Signal Theory  6cp
48720 Network Fundamentals  6cp
48471 ICT Analysis  6cp
48481 ICT Design  6cp
STM90652 Capstone Project  12cp
Select 42 credit points from the following options:  42cp
SMJ03039 Software  42cp
SMJ03042 Computer Systems  42cp
SMJ03045 Telecommunications  42cp
CBK90361 Software option  18cp
CBK90362 Digital Electronics option  18cp
CBK90363 Embedded Systems option  18cp
CBK90364 Signals option  18cp
CBK90365 Networks option  18cp
CBK90368 ICT choice  6cp
Total 102cp

MAJ03449 ICT Engineering
48410 Introduction to ICT Engineering  6cp
48023 Programming Fundamentals  6cp
48441 Introductory Digital Systems  6cp
48510 Introduction to Electrical Engineering  6cp
48541 Signal Theory  6cp
48720 Network Fundamentals  6cp
48471 ICT Analysis  6cp
48481 ICT Design  6cp
STM90652 Capstone Project  12cp
48210 Interrogating Technology: Sustainability, Environment and Social Change  6cp
Select 48 credit points from the following options:  48cp
SMJ03040 Software  48cp
SMJ03043 Computer Systems  48cp
SMJ03046 Telecommunications  48cp
CBK90361 Software option  18cp
CBK90362 Digital Electronics option  18cp
CBK90363 Embedded Systems option  18cp
CBK90364 Signals option  18cp
CBK90365 Networks option  18cp
CBK90367 ICT choice  12cp
Total 114cp

MAJ03450 Mechanical and Mechatronic Engineering
48610 Introduction to Mechanical and Mechatronic Engineering  6cp
48620 Fundamentals of Mechanical Engineering  6cp
48621 Manufacturing Engineering  6cp
48510 Introduction to Electrical Engineering  6cp
48023 Programming Fundamentals  6cp
48520 Electronics and Circuits  6cp
48334 Mechanics of Solids  6cp
48641 Fluid Mechanics  6cp
48600 Mechanical Design I  6cp
48640 Machine Dynamics  6cp
48531 Electromechanical Automation  6cp
48622 Mechatronics I  6cp
48642 Strength of Engineering Materials  6cp
48660 Dynamics and Control  6cp
48670 Mechanical and Mechatronic Design  6cp
48650 Mechanical Design 2  6cp
48662 Mechatronics 2  6cp
48016 Capstone Project Part A  6cp
48026 Capstone Project Part B  6cp
Total 114cp

MAJ03451 Integrated Logistic Support and Engineering Management
Logistics engineering involves ensuring that the systems created to meet various needs can be effectively and adequately supported during their lifetime. Without such support, systems do not remain fit for purpose for the required lengths of time.

This major prepares students to manage acquisition and management of complex systems with a view to ensuring that such systems can be supported in an effective manner. The subjects studied for this major prepare students to not only identify the key drivers and requirements for system support, but also to ensure that these considerations are treated with due importance throughout the system’s life cycle.

The major focuses on both the technical and managerial aspects of logistics engineering, covering areas such as aircraft, defence industries, and other industries, creating systems which require well thought out support systems successful operations and sustainment.

Completion requirements
49001 Judgment and Decision Making  6cp
49309 Quality Planning and Analysis  6cp
49655 Integrated Logistic Support  6cp
49678 Reliability Availability and Maintainability  6cp
Total 24cp
MAJ03452 Integrated Logistic Support and Engineering Management
Logistics engineering involves ensuring that the systems created to meet various needs can be effectively and adequately supported during their lifetime. Without such support, systems do not remain fit for purpose for the required lengths of time.

This major prepares students to manage acquisition and management of complex systems with a view to ensuring that such systems can be supported in an effective manner. The subjects studied for this major prepare students to not only identify the key drivers and requirements for system support, but also to ensure that these considerations are treated with due importance throughout the system’s life cycle. The major focuses on both the technical and managerial aspects that typically confront people working in such fields. The program emphasises a systems approach to logistics engineering and enable the student to appreciate the importance of a life-cycle view to system acquisition and management. The individual components of the program familiarise students with the skills relevant to logistics engineering and management.

The knowledge gained prepares students to work in many industries, such as aircraft, defence industries, and other industries, creating systems which require well thought out support systems successful operations and sustainment.

Completion requirements
- 49001 Judgment and Decision Making 6cp
- 49004 Systems Engineering for Managers 6cp
- 49009 Leadership and Responsibility 6cp
- 49309 Quality Planning and Analysis 6cp
- 49655 Integrated Logistic Support 6cp
- 49678 Reliability Availability and Maintainability 6cp
- 49098 Engineering Financial Control 6cp
- 49680 Value Chain Engineering Systems 6cp
Total 48cp

MAJ03453 Civil Engineering
The Civil Engineering major allows students to further broaden and/or deepen their previous studies in civil engineering while also addresses some aspects of professional practice. This is a broad major that covers water engineering, some structural engineering, local government engineering and also environmental engineering. Specialist majors are also available in these areas.

Completion requirements
- CBK90230 Elective 6cp
Select 18 credit points from the following options: 18cp
- 49002 Managing Projects 6cp
- 49102 Traffic and Transportation 6cp
- 49105 Water Supply and Wastewater Management 6cp
- 49106 Road Engineering Practice 6cp
- 49107 Urban Stormwater Design 6cp
- 49109 Engineered Natural Water Treatment Systems 6cp
- 49115 Facade Engineering 6cp
- 49121 Environmental Assessment and Planning 6cp
- 49126 Environmental Management of Land 6cp
- 49131 Bridge Design 6cp
- 49136 Application of Timber in Engineering Structures 6cp
- 49150 Prestressed Concrete Design 6cp
- 49143 Civil Engineering Review 1 6cp
- 49254 Advanced Soil Mechanics and Foundation Design 6cp
- 49258 Pavement Analysis and Design 6cp
- 49199 Problematic Soils and Ground Improvement Techniques 6cp
- 49118 Applied Geotechnics 6cp
Total 24cp

MAJ03454 Civil Engineering
The Civil Engineering major allows students to further broaden and/or deepen their previous studies in civil engineering while also addresses some aspects of professional practice. This is a broad major that covers water engineering, some structural engineering, local government engineering and also environmental engineering. Specialist majors are also available in these areas.

Completion requirements
- CBK90331 Subject choice (Group A) 18cp
- CBK90230 Elective 6cp
Select 24 credit points from the following options: 24cp
- 49002 Managing Projects 6cp
- 49102 Traffic and Transportation 6cp
- 49105 Water Supply and Wastewater Management 6cp
- 49106 Road Engineering Practice 6cp
- 49107 Urban Stormwater Design 6cp
- 49109 Engineered Natural Water Treatment Systems 6cp
- 49115 Facade Engineering 6cp
- 49121 Environmental Assessment and Planning 6cp
- 49126 Environmental Management of Land 6cp
- 49131 Bridge Design 6cp
- 49136 Application of Timber in Engineering Structures 6cp
- 49150 Prestressed Concrete Design 6cp
- 49143 Civil Engineering Review 1 6cp
- 49199 Problematic Soils and Ground Improvement Techniques 6cp
- 49254 Advanced Soil Mechanics and Foundation Design 6cp
- 49258 Pavement Analysis and Design 6cp
- 49118 Applied Geotechnics 6cp
Total 24cp
**MAJ03456 Civil Engineering and Structural Engineering**

The Civil Engineering and Structural Engineering major allows students to focus on technical content in structural engineering as well as some aspects of civil engineering. Students can elect to tailor the balance of structural engineering subjects versus general civil engineering subjects.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK09069</td>
<td>Civil and Structural Engineering</td>
<td>24</td>
</tr>
<tr>
<td>49047</td>
<td>Finite Element Analysis</td>
<td>6</td>
</tr>
<tr>
<td>49134</td>
<td>Structural Dynamics and Earthquake</td>
<td>6</td>
</tr>
<tr>
<td>49136</td>
<td>Application of Timber in Engineering</td>
<td>6</td>
</tr>
<tr>
<td>49150</td>
<td>Prestressed Concrete Design</td>
<td>6</td>
</tr>
<tr>
<td>49115</td>
<td>Facade Engineering</td>
<td>6</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>48</td>
</tr>
</tbody>
</table>

**MAJ03457 Value Chain Management**

This major is only available to approved employees of the Defence Materiel Organisation (DMO) who have been sponsored for admission into this program.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6</td>
</tr>
<tr>
<td>49880</td>
<td>Value Chain Engineering Systems</td>
<td>6</td>
</tr>
<tr>
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<td></td>
<td>24</td>
</tr>
</tbody>
</table>

**MAJ03458 Geotechnical Engineering**

Geotechnical engineering is a professional engineering discipline dealing with the design, construction and maintenance of the earth infrastructures, such as foundations of buildings, towers, bridges, dams, road and rail embankments, tunnels, retaining walls and natural slopes. Currently there is a global need for geotechnical engineers for design and construction of challenging large infrastructure projects. The Geotechnical Engineering major trains students in a variety of skills such as planning and undertaking geotechnical site investigations and laboratory testing, designing major structures in ground, and designing appropriate ground improvement techniques for problematic soils and contaminated sites. The knowledge and skills that students gain prepare them to work in many industries and organisations including local councils, state and federal government, non-government organisations, geotechnical consultancies, construction companies and large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering. However, applicants with a background in other fields of engineering or applied science may also apply.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK09033</td>
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</tr>
<tr>
<td>CBK09023</td>
<td>Elective</td>
<td>6</td>
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</tr>
<tr>
<td>49102</td>
<td>Traffic and Transportation</td>
<td>6</td>
</tr>
<tr>
<td>49116</td>
<td>Contaminated Site and Waste Remediation</td>
<td>6</td>
</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6</td>
</tr>
<tr>
<td>49126</td>
<td>Environmental Management of Land</td>
<td>6</td>
</tr>
<tr>
<td>49143</td>
<td>Civil Engineering Review 1</td>
<td>6</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation</td>
<td>6</td>
</tr>
<tr>
<td>49257</td>
<td>Geographic Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>48</td>
</tr>
</tbody>
</table>

**MAJ03460 Geotechnical Engineering**

Geotechnical engineering is a professional engineering discipline dealing with the design, construction and maintenance of the earth infrastructures, such as foundations of buildings, towers, bridges, dams, road and rail embankments, tunnels, retaining walls and natural slopes. Currently there is a global need for geotechnical engineers for design and construction of challenging large infrastructure projects. The Geotechnical Engineering major trains students in a variety of skills such as planning and undertaking geotechnical site investigations and laboratory testing, designing major structures in ground, and designing appropriate ground improvement techniques for problematic soils and contaminated sites. The knowledge and skills that students gain prepare them to work in many industries and organisations including local councils, state and federal government, non-government organisations, geotechnical consultancies, construction companies and large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering. However, applicants with a background in other fields of engineering or applied science may also apply.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBK09067</td>
<td>Civil and Geotechnical Engineering choice A</td>
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</tr>
<tr>
<td>CBK09077</td>
<td>Civil and Geotechnical Engineering choice B</td>
<td>24</td>
</tr>
</tbody>
</table>

| Total       |                                           | 48  |

**MAJ03461 Geotechnical Engineering**

Geotechnical engineering is a professional engineering discipline dealing with the design, construction and maintenance of the earth infrastructures, such as foundations of buildings, towers, bridges, dams, road and rail embankments, tunnels, retaining walls and natural slopes. Currently there is a global need for geotechnical engineers for design and construction of challenging large infrastructure projects. The Geotechnical Engineering major trains students in a variety of skills such as planning and undertaking geotechnical site investigations and laboratory testing, designing major structures in ground, and designing appropriate ground improvement techniques for problematic soils and contaminated sites. The knowledge and skills that students gain prepare them to work in many industries and organisations including local councils, state and federal government, non-government organisations, geotechnical consultancies, construction companies and large multinational firms.

This major is mostly suited to applicants who have an undergraduate degree in civil engineering. However, applicants with a background in other fields of engineering or applied science may also apply.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CPE</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>49118</td>
<td>Applied Geotechnics</td>
<td>6</td>
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<tr>
<td>49119</td>
<td>Problematic Soils and Ground Improvement Techniques</td>
<td>6</td>
</tr>
<tr>
<td>49254</td>
<td>Advanced Soil Mechanics and Foundation</td>
<td>6</td>
</tr>
<tr>
<td>49258</td>
<td>Pavement Analysis and Design</td>
<td>6</td>
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</table>

| Total       |                                           | 48  |
MAJ03462 Operations

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49989</td>
<td>Operations Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>49006</td>
<td>Risk Management in Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49069</td>
<td>Leadership and Responsibility</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
</tr>
<tr>
<td>49678</td>
<td>Reliability Availability and Maintainability</td>
<td>6cp</td>
</tr>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49989</td>
<td>Operations Engineering</td>
<td>6cp</td>
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<tr>
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<td><strong>Total 24cp</strong></td>
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MAJ03463 Operations

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
</tr>
<tr>
<td>49989</td>
<td>Operations Engineering</td>
<td>6cp</td>
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<tr>
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<td><strong>Total 24cp</strong></td>
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MAJ03464 Operations

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>49002</td>
<td>Managing Projects</td>
<td>6cp</td>
</tr>
<tr>
<td>49306</td>
<td>Quality and Operations Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>49309</td>
<td>Quality Planning and Analysis</td>
<td>6cp</td>
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<tr>
<td>49001</td>
<td>Judgment and Decision Making</td>
<td>6cp</td>
</tr>
<tr>
<td>49004</td>
<td>Systems Engineering for Managers</td>
<td>6cp</td>
</tr>
<tr>
<td>49006</td>
<td>Risk Management in Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>49016</td>
<td>Technology and Innovation Management</td>
<td>6cp</td>
</tr>
<tr>
<td>49069</td>
<td>Leadership and Responsibility</td>
<td>6cp</td>
</tr>
<tr>
<td>49655</td>
<td>Integrated Logistic Support</td>
<td>6cp</td>
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<td>49678</td>
<td>Reliability Availability and Maintainability</td>
<td>6cp</td>
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<tr>
<td></td>
<td><strong>Total 48cp</strong></td>
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</table>

MAJ03465 Biomedical Engineering

This major applies engineering principles and design concepts to medicine and biology. It offers subjects which teach the design and problem-solving skills for problems from both engineering and biology perspectives. It also teaches how to design devices and systems for biomedical or health applications. The knowledge gained prepares students for work in industry, hospitals, research facilities, teaching and government regulatory agencies. Background knowledge in electrical engineering, mechanical engineering, computer systems and biomedical science prepares students for this major, however it is not a requisite.

<table>
<thead>
<tr>
<th>Completion requirements</th>
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<tbody>
<tr>
<td>CBK90851 Biomedical Engineering</td>
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<tr>
<td>CBK90854 Biomedical Engineering</td>
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MAJ03466 Biomedical Engineering

This major applies engineering principles and design concepts to medicine and biology. It offers subjects which teach the design and problem-solving skills for problems from both engineering and biology perspectives. It also teaches how to design devices and systems for biomedical or health applications. The knowledge gained prepares students for work in industry, hospitals, research facilities, teaching and government regulatory agencies. Background knowledge in electrical engineering, mechanical engineering, computer systems and biomedical science prepares students for this major, however it is not a requisite.

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<tr>
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<td>CBK90854 Biomedical Engineering</td>
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MAJ03467 Systems Engineering

This major prepares students to manage acquisition, development and management of complex systems with a view to ensuring that such systems are 'fit for purpose' and can be supported in an effective manner. The subjects studied prepare students not only to identify the key drivers and requirements for engineered systems, but also to ensure that these considerations, including the increasingly important economic considerations, are treated with due importance throughout a system's life cycle. The major focuses on both the technical and managerial aspects that typically confront people working in such fields.

<table>
<thead>
<tr>
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<tr>
<td>49004 Systems Engineering for Managers</td>
</tr>
<tr>
<td>32659 Enterprise Business Requirements</td>
</tr>
<tr>
<td>49655 Integrated Logistic Support</td>
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<tr>
<td>49002 Managing Projects</td>
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<tr>
<td>49001 Judgment and Decision Making</td>
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<td>49003 Economic Evaluation</td>
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<td>49002</td>
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MAJ03468 Systems Engineering

This major prepares students to manage acquisition, development and management of complex systems with a view to ensuring that such systems are 'fit for purpose' and can be supported in an effective manner. The subjects studied prepare students not only to identify the key drivers and requirements for engineered systems, but also to ensure that these considerations, including the increasingly important economic considerations, are treated with due importance throughout a system's life cycle. The major focuses on both the technical and managerial aspects that typically confront people working in such fields.

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<td>49002</td>
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MAJ03469 Systems Engineering

This major prepares students to manage acquisition, development and management of complex systems with a view to ensuring that such systems are 'fit for purpose' and can be supported in an effective manner. The subjects studied prepare students not only to identify the key drivers and requirements for engineered systems, but also to ensure that these considerations, including the increasingly important economic considerations, are treated with due importance throughout a system's life cycle. The major focuses on both the technical and managerial aspects that typically confront people working in such fields.

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<tr>
<td>49003 Economic Evaluation</td>
</tr>
<tr>
<td><strong>Total 24cp</strong></td>
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</table>
MAJ03470 Biomedical Engineering

Option (elective) choice differs depending on the stream students are enrolled in. The following electives are recommended by the faculty:

- **Physical Science stream**: choose four subjects from the following: 91403, 68075, 67509 (Autumn semester); 91705, 91140, 27174 (Spring semester)
- **Biomedical Sciences stream**: choose five subjects from the following: 91703, 91403, 68075, 67509 (Autumn semester); 27174, 91705, 91708, 91140 (Spring semester).

**Completion requirements**

49261 Biomedical Instrumentation 6cp

CBK90867 Biomedical Engineering stream choice 12cp

Select 30 credit points from the following options: 30cp

91239 Human Pathophysiology 6cp
91703 Physiological Systems 6cp
91708 Medical and Applied Physiology 6cp
27174 Analysis of Human Motion 6cp
91403 Medical Imaging 6cp
68075 Nanomaterials 6cp
67509 Molecular Nanotechnology 6cp
91705 Medical Devices and Diagnostics 6cp
91140 BioNanotechnology 6cp
49275 Neural Networks and Fuzzy Logic 6cp
48023 Programming Fundamentals 6cp
91171 Biomedical Engineering Project A 12cp
91172 Biomedical Engineering Project B 12cp
91173 Biomedical Engineering Project 24cp

Total 48cp

MAJ03471 Objects and Accessories

89131 Objects and Accessories Studio: Fold 12cp
89132 Objects and Accessories Studio: Layer 12cp
89133 Objects and Accessories Studio: Final Project 12cp

Total 36cp

MAJ04004 Interior Lighting

Select 24 credit points from the following options: 24cp

89400 Design Capstone Project 12cp

Total 24cp

MAJ04005 Furniture Design

Select 24 credit points from the following options: 24cp

88931 Furniture Concepts 6cp
89400 Design Capstone Project 12cp

Total 24cp

MAJ04006 Lighting

89114 Lighting Studio: Light, Time and Change 12cp
89115 Lighting Studio: Light, Materials and Space 12cp
89116 Lighting Studio: Final Project 12cp

Total 36cp

MAJ04007 Perception Space Materials

89141 Perception Space Materials: Research and Conceptualisation 12cp
89142 Perception Space Materials: Design Philosophy 12cp
89143 Perception Space Materials: Constructing Materials - Expanded Field of Practice 12cp

Total 36cp

MAJ05003 Environmental Change Management

91540 Climate Change and Ecological Modelling 6cp
91541 Monitoring Ecological Variability 6cp

Select one of the following: 6cp

91145 Environmental Protection and Management 6cp
91120 GIS and Remote Sensing 6cp

Select 30 credit points from the following options: 30cp

CBK90640 Elective 6cp
91145 Environmental Protection and Management 6cp
91120 GIS and Remote Sensing 6cp
91155 Stream and Lake Assessment 6cp
91157 Marine Communities 6cp
91116 Wildlife Ecology 6cp

91118 Fisheries Resources 6cp
66513 Marine Geosciences 6cp
91543 Evaluation of Contaminant Effects 6cp
91542 Principles of Contaminated Site Assessment 6cp
91309 Biodiversity Conservation 6cp
91544 Environment Risk Assessment and Remediation 6cp
91545 Environment Research Project A 12cp
91546 Environment Research Project B 12cp
91547 Environment Research Project 24cp
69910 Directed Study A 6cp
69911 Directed Study B 6cp
CBK90682 Options 6cp
91551 Ecology and Climate Change 6cp

Total 72cp

MAJ06213 Advanced Nursing Practice

This major is not offered to international students.

**Completion requirements**

92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp
92612 Research in Health 6cp
92608 Advanced Assessment and Diagnosis 6cp
92894 Advanced Clinical Practice 6cp
CBK90508 Sub-major/Four electives 24cp
92609 Pharmacological Therapies in Advanced Practice 6cp
92608 Advanced Assessment and Diagnosis 6cp

Total 72cp

MAJ06214 Nurse Practitioner

This major is not offered to international students.

**Completion requirements**

92790 Evidence-based Practice 6cp
92612 Research in Health 6cp
92608 Advanced Assessment and Diagnosis 6cp
92609 Pharmacological Therapies in Advanced Practice 6cp
92611 Complex Case Management 6cp
98727 Quality Use of Medicines in Advanced Practice 6cp
98728 Leadership, Accountability and Role Development in Advanced Practice 6cp
CBK90508 Sub-major/Four electives 24cp
92606 Issues in Australian Health Services 6cp

Total 72cp

MAJ06215 Health Research

STM09761 Health Research Level 1 24cp
STM09762 Health Research Level 2 24cp

Select 24 credit points from the following options: 24cp

CBK90842 Health Research RPL 24cp

Total 72cp

MAJ07041 Personal Development, Health and Physical Education

023125 Learning in Personal Development, Health and Physical Education 1 6cp
023122 Professional Practice in Personal Development, Health and Physical Education 1 6cp
023126 Learning in Personal Development, Health and Physical Education 2 6cp
023123 Professional Practice in Personal Development, Health and Physical Education 2 6cp

Total 24cp

MAJ07047 Technology and Applied Studies

Free choice of electives.

MAJ07048 Visual Arts

Free choice of electives.

MAJ07049 English

Free choice of electives.

MAJ07050 ESL

Free choice of electives.
MAJ07051 Education
92790 Evidence-based Practice 6cp
92606 Issues in Australian Health Services 6cp
92612 Research in Health 6cp
92721 Health Promotion and Health Education 6cp
SMJ07002 Clinical Teaching 24cp
CBK90148 Education subjects (PG) 6cp
CBK90510 Electives 18cp
Total 72cp

MAJ07054 TESOL
013096 Grammar and the Construction of Meaning 6cp
013121 Theory and Practice of Teaching English to Speakers of other Languages 6cp
013117 Theory and Practice of Literacy 6cp
013105 Language Development 6cp
013092 Research Perspectives 6cp
CBK90632 Options 18cp
Total 48cp

MAJ07055 Applied Linguistics
013087 Discourse Analysis 6cp
013095 Global Englishes 6cp
013096 Grammar and the Construction of Meaning 6cp
013107 Phonology and Pronunciation 6cp
013092 Research Perspectives 6cp
Select 18 credit points from the following options: 18cp
CBK90037 Options 18cp
Total 48cp

MAJ07056 e-Learning
CBK90648 Options 12cp
013091 e-Learning Experiences 1 6cp
013092 e-Learning Experiences 2 6cp
013093 e-Learning Technologies 6cp
013090 e-Learning Design 6cp
STM90645 Core subjects 12cp
Total 48cp

MAJ07058 Mathematics
013047 Mathematics Teaching Methods 1 6cp
013059 Mathematics Teaching Methods 2 6cp
013065 Mathematics Teaching Methods 3 6cp
013071 Mathematics Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07059 Visual Arts
013050 Visual Arts Teaching Methods 1 6cp
013062 Visual Arts Teaching Methods 2 6cp
013068 Visual Arts Teaching Methods 3 6cp
013074 Visual Arts Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07060 Personal Development, Health and Physical Education
013048 Personal Development, Health and Physical Education Teaching Methods 1 6cp
013060 Personal Development, Health and Physical Education Teaching Methods 2 6cp
013066 Personal Development, Health and Physical Education Teaching Methods 3 6cp
013072 Personal Development, Health and Physical Education Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07061 Science
013049 Science Teaching Methods 1 6cp
013061 Science Teaching Methods 2 6cp
013067 Science Teaching Methods 3 6cp
013073 Science Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07062 Languages other than English
013046 Language Teaching Methods 1 6cp
013058 Language Teaching Methods 2 6cp
013064 Language Teaching Methods 3 6cp
013070 Language Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07063 English
013041 English Teaching Methods 1 6cp
013053 English Teaching Methods 2 6cp
013063 English Teaching Methods 3 6cp
013069 English Teaching Methods 4 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07064 Mathematics/Science
013047 Mathematics Teaching Methods 1 6cp
013059 Mathematics Teaching Methods 2 6cp
013061 Science Teaching Methods 1 6cp
013067 Science Teaching Methods 2 6cp
CBK90524 Teaching Discipline Contents 72cp
013401 Professional Experience and Classroom Management 1 6cp
013402 Professional Experience and Classroom Management 2 6cp
Total 108cp

MAJ07065 Science/Computing Studies
013049 Science Teaching Methods 1 6cp
013061 Science Teaching Methods 2 6cp
013040 Computing Studies Teaching Methods 1 6cp
013052 Computing Studies Teaching Methods 2 6cp
013020 Professional Experience 1 (Science/Computing Studies) 6cp
013036 Professional Experience 2 (Science/Computing Studies) 6cp
CBK90524 Teaching Discipline Contents 72cp
Total 108cp

MAJ07066 Mathematics/Computing Studies
013047 Mathematics Teaching Methods 1 6cp
013059 Mathematics Teaching Methods 2 6cp
013040 Computing Studies Teaching Methods 1 6cp
013052 Computing Studies Teaching Methods 2 6cp
013017 Professional Experience 1 (Mathematics/Computing Studies) 6cp
013032 Professional Experience 2 (Mathematics/Computing Studies) 6cp
CBK90524 Teaching Discipline Contents 72cp
Total 108cp

MAJ07067 Adult Education
The Adult Education major introduces students to an in-depth study of adult learning practice and traditions, approaches to program planning, adult development psychology, and education policy contexts. In addition to the core areas of the program, students complete two electives chosen from the variety of subjects on offer across the MEd including educational policy, e-learning, educational psychology,
popular education, research design and social change, and many others, to form a program of study to suit their professional development needs.

Students bring with them experiences gained from working in diverse settings ranging from public sector organisations, private enterprise, non-government and charity organisations, educational institutions and the broad health field and more. This breadth of practice and experience adds a richness to the program.

Upon completion, graduates are well positioned to be at the cutting edge of learning and change in educational, vocational, community and organisational settings.

**Completion requirements**

<table>
<thead>
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**MAJ07068 English/History**

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<td>013401</td>
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**MAJ07069 Geography/Commerce, Business Studies and Economics**

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<td>013039</td>
<td>Commerce, Business Studies and Economics Teaching Methods 1</td>
<td>6cp</td>
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<tr>
<td>013051</td>
<td>Commerce, Business Studies and Economics Teaching Methods 2</td>
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<tr>
<td>CBK09524</td>
<td>Teaching Discipline Contents</td>
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<tr>
<td>013401</td>
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<td>013039</td>
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**MAJ07071 History/Geography**

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**MAJ07072 Indigenous Studies**

This major is for students wanting to be at the forefront of learning and change in Indigenous education and development. The major’s aims are to build respectful partnerships across all sectors and create meaningful and productive dialogues and collaborations between Indigenous and non-Indigenous peoples, with communication and knowledge sharing that respect and acknowledge the rights of Indigenous peoples to maintain control over their culture.

**Completion requirements**

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**MAJ07073 Computing Studies**

This major provides a foundation in core areas concerned with adult learning as well as specific subjects related to organisational and workplace learning that reflect the growing focus on professional learning, changing professional practice and leading informal and formal learning strategies.

It is ideally suited for people working in learning and development units, human resource management, vocational and workplace policy, organisational learning areas and those who are responsible for leading and facilitating formal and informal learning in the workplace. In addition to the core areas of the major, students complete two electives chosen from the variety of subjects on offer across the MEd including educational policy, e-learning, educational psychology, research design, popular education and social change, and many others, to form a program of study to suit their professional development needs.

Upon completion, graduates are well positioned to be at the cutting edge of learning and change in educational, vocational, community and organisational settings.

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**MAJ07074 Organisational and Workplace Learning**

This major provides a foundation in core areas concerned with adult learning as well as specific subjects related to popular education approaches in community action and social change. A set of subjects on popular education and social movements; narrative and storytelling in education and change; and new media and social change offer a unique opportunity to focus on contemporary approaches to popular education and social change.

The major is aimed at people who aspire to, or are currently working in organisations that focus on social change. These range from trade unions, to community and social movement organisations, charities and advocacy bodies, and more. It is ideally suited for people who are working with others in campaigning, organising, advocacy and activism. Major participants are most likely working as educators, organisers, campaigners, researchers, or advocates and are interested in developing strategies to assist their members, constituents and
MAJ08046 Extended Management

The Extended Management major provides specialised study in management; developing outstanding students who wish to extend their understanding of management and engage with the subject matter in more depth. It develops students’ ability to engage with practical problems through different theoretical approaches to organisation and management and provides them with critical tools needed to understand management and organisation research and theory. Students can focus on specific topics to advance their understanding and ability to solve complex problems and is a strong preparation for further research in management.


Completion requirements

21440 Management Skills 6cp
21909 Advanced Organisation and Management 6cp
21907 Research Methods and Approaches in Management and Organisations 6cp
21510 The Global Context of Management 6cp
21511 Global Operations and Supply Chain Management 6cp
21512 Understanding Organisations: Theory and Practice 6cp
21513 Business Ethics and Sustainability 6cp
21504 Management Capstone 6cp
Select 24 credit points from the following options: 24cp
21227 Innovation and Entrepreneurship 6cp
21228 Management Consulting 6cp
21391 Transnational Management 6cp
21595 International Management Field Study 6cp
21602 Strategy: Theory and Practice 6cp
21555 Human Resource Management 6cp
Total 72cp

MAJ08049 Accounting Information Systems

The Accounting Information Systems major provides students with in-depth knowledge of and skills in accounting and business information management, ERP, business intelligence, business process management and project management. The major emphasises the benefits of the integration of business processes and data integration and addresses issues in business planning, analysis and control. SAP enterprise and business intelligence solutions are used extensively as demonstration and learning tools. The major is designed for a broad target group ranging from students with knowledge of accounting concepts wanting to increase their accounting/systems skills, to students with an IT background aiming at acquiring knowledge of accounting/business concepts and processes.

Completion requirements

22759 Accounting and ERP 6cp
22708 Accounting Information Systems 6cp
22766 Assurance for Enterprise Systems 6cp
22776 Business Information Systems 6cp
22782 Business Process Integration with ERP 6cp
22783 Business Intelligence 2: Advanced Planning 6cp
22797 Business Intelligence 1: Advanced Analysis 6cp
22787 Business Project Management 6cp
Total 48cp

MAJ08057 Integrated Communication

57132 Media Relations 8cp
57131 Inventive Media Advertising 8cp
57996 Marketing and Corporate Communication 8cp
Total 24cp

MAJ08058 Public Relations

57024 Managing Public Communication Strategies 8cp
57132 Media Relations 8cp
57026 Strategic Communication and Negotiation 8cp
Total 24cp

MAJ08059 Organisational Change and Communication

57035 Organisational Change and Communication 8cp
57994 Managing Organisational Communication 8cp
57995 Learning in Organisations 8cp
Total 24cp

MAJ08060 Extended Finance

Finance has evolved as a major field of business practised by either business executives in the management of company funds or by executives in the financial sector who may work in financial markets, financial institutions, information technology or consultancy firms that provide financial advice and services to businesses and individuals. The subjects in the Extended Finance major provide graduates with professional skills, deep knowledge and the broad understanding necessary for a career in finance and the financial sector. Students intending to apply for the honours program in finance should complete 25573 Time Series Econometrics as their optional subject.

Anti-requisite: MAJ08440 Finance, MAJ09209 Economics, SMJ08123 Finance

Completion requirements

25622 Quantitative Business Analysis 6cp
25566 The Financial System 6cp
25503 Investment Analysis 6cp
23566 Economics for Business 2 6cp
25557 Corporate Finance: Theory and Practice 6cp
25410 Corporate Financial Analysis (Capstone) 6cp
Select 36 credit points from the following options: 36cp
25005 Economics and Finance of the Life Cycle 6cp
25421 International Financial Management 6cp
25558 Issues in Corporate Finance 6cp
25602 Ethics in Finance 6cp
25620 Derivative Securities 6cp
25574 Commercial Bank Management 6cp
25575 Investment Banking 6cp
25576 Wealth Management 6cp
25577 Behavioural Finance 6cp
25578 Corporate Governance and Executive Compensation 6cp
25579 Applied Portfolio Management 6cp
25573 Time Series Econometrics 6cp
Total 72cp

potential allies earn. Utilising a popular education approach the major draws from and build upon the experiences and expertise of the participants.

In addition to the core subjects, students complete two electives chosen from the variety of subjects on offer across the MEd program including e-learning, critical pedagogy and film, educational policy, research design, and many others, to form a program of study that suits their personal and professional development needs.

Upon completion graduates are well positioned to use their skills and knowledge to be more effective and reflective educational practitioners and leaders.

Completion requirements

STM90537 Core subjects (Education PG) 18cp
STM90538 Major core subjects (PopEdSocChange) 18cp
CBK90707 Electives major (PopEdSocChange) 12cp
Total 48cp

MAJ08020 Human Resource Management

This major provides students with the skills, knowledge, and abilities to effectively contribute to an organisation’s human resource management (HRM) functions, either as a practitioner or as part of a broader management role. It introduces students to the frameworks governing and influencing HRM and aims to develop an understanding and competency in the practice of HRM as applied in Australian and international contexts. Students’ critical analysis skills, understanding of the role of communication and information technology and appreciation of ethical issues in HRM are developed through the study of HRM structures, systems and processes as well as strategic approaches to the field of HRM.

Completion requirements

21724 Strategic Human Resource Management 6cp
21702 Industrial Relations 6cp
21833 International Human Resources Management 6cp
21760 Performance and Talent Management 6cp
21720 Human Resource Management 6cp
21811 Global Strategic Management 6cp
21827 Change Management 6cp
21741 Managing Operations 6cp
Total 48cp
MAJ08063 Extended Marketing

This major has an in-depth focus on all aspects of the marketing functional area. It provides specialised study in marketing, developing hands-on experience in applying the principles and best practices that underlie contemporary marketing. It also provides an opportunity to focus on marketing strategy or research that is critical for effectively and efficiently marketing products and services.


Completion requirements

24202 Consumer Behaviour 6cp
24309 Marketing Research 6cp
24210 Integrated Marketing Communications 6cp
24415 Marketing Planning and Strategy 6cp
24331 Marketing Analytics and Decisions 6cp
24222 Marketing Channels 6cp
24223 New Product Marketing 6cp
24224 Pricing Strategies and Tactics 6cp
24100 Applied Project in Marketing (Capstone) 6cp
Select 18 credit points from the following options: 18cp
24104 Emerging Marketing Issues and Social Media 6cp
24205 Business-to-Business Marketing 6cp
24220 International Marketing 6cp
24306 Services Marketing 6cp
24510 Advertising Research 6cp
24902 Research Methodology and Data Analysis Techniques 6cp
24908 Research Design and Data Collection Techniques 6cp
Total 72cp

MAJ08068 Financial Services

The operation of the financial services sector is critical to the operation of the economy. Consequently, an understanding of how financial information is generated and used, together with how the financial markets operate, is important. The subjects in this major provide students with essential professional skills in how financial reports are prepared, how financial information may be used and how the financial system operates. This major is only available to Bachelor of Business students undertaking majors other than MAJ08437 Accounting.

Anti-requisite: MAJ08437 Accounting, MAJ08066 Extended Finance, SMJ08116 Financial Reporting, SMJ08123 Finance.

Completion requirements

25556 The Financial System 6cp
22320 Accounting for Business Combinations 6cp
25622 Quantitative Business Analysis 6cp
25903 Investment Analysis 6cp
22420 Accounting Standards and Regulations 6cp
79017 Taxation Law 6cp
25557 Corporate Finance: Theory and Practice 6cp
22319 Financial Statement Analysis (Capstone) 6cp
Total 48cp

MAJ08116 Marketing Communication

This major has been developed in response to a need in the advertising industry for university graduates who have an understanding of the strategic decisions that must be made to manage a firm’s advertising and promotion activities. It is designed for students who are interested in specialising in the study of advertising, promotions and media within a managerial framework. Students gain skills to plan and manage advertising and promotional campaigns, and evaluate their effectiveness through market research.


Completion requirements

24202 Consumer Behaviour 6cp
59330 Advertising Practice 6cp
24210 Integrated Marketing Communications 6cp
24309 Marketing Research 6cp
24207 Media Planning 6cp
24510 Advertising Research 6cp
59333 Advertising Strategies 6cp
24101 Applied Project in Marketing Communication (Capstone) 6cp
Total 48cp

MAJ08437 Accounting

Note: This major is only available to Bachelor of Business students undertaking majors other than MAJ08066 Financial Services.

The Accounting major builds on the core subjects to develop the intellectual attributes needed by current and future accountants. It satisfies the university education requirements of the Institute of Chartered Accountants of Australia, CPA Australia and the Chartered Institute of Management Accountants.

As part of the Accounting major, Bachelor of Business Bachelor of Laws (C10125) (see page 181) students must substitute an alternative subject in place of 79014 Applied Company Law. Students who complete 76212 Revenue Law as a Law option may apply to substitute an alternative subject in place of 79017 Taxation Law.


Completion requirements

22320 Accounting for Business Combinations 6cp
22321 Cost Management Systems 6cp
24220 Accounting Standards and Regulations 6cp
79014 Applied Company Law 6cp
22522 Assurance Services and Audit 6cp
79017 Taxation Law 6cp
22421 Management Decisions and Control 6cp
22319 Financial Statement Analysis (Capstone) 6cp
Total 48cp

MAJ08446 Management

This major is underpinned by creative and critical thinking reflective of tertiary level education focused on the issues of responsible, reflexive and accountable management. The program is proactive in responding to and shaping the contexts, demands and perceptions of managers in increasingly complex and turbulent times. The major is designed so that students can direct their program of study toward developing many of the essential attributes and competencies necessary for a career in a professional role in general management, entrepreneurship, supply chain management or other management related roles.


Completion requirements

21510 The Global Context of Management 6cp
21512 Understanding Organisations: Theory and Practice 6cp
21511 Global Operations and Supply Chain Management 6cp
21440 Management Skills 6cp
21513 Business Ethics and Sustainability 6cp
21504 Management Capstone 6cp
Select 12 credit points from the following options: 12cp
21591 Transnational Management 6cp
21227 Innovation and Entrepreneurship 6cp
21226 Management Consulting 6cp
21595 International Management Field Study 6cp
21602 Strategy: Theory and Practice 6cp
21555 Human Resource Management 6cp
Total 48cp
**MAJ08440 Finance**

Finance has evolved as a major field of business practised by either business executives in the management of company funds or by executives in the financial sector who may work in financial markets, financial institutions, information technology or consultancy firms that provide financial advice and services to businesses and individuals. The subjects in the Finance major provide graduates with the professional skills, knowledge and understanding necessary for a career in finance and the financial sector.

Students intending to apply for the honours program in finance should complete 25573 Time Series Econometrics as their optional subject.

To be eligible for admission to the Finance strand in the Bachelor of Business (Honours), students are required to complete 25573 Time Series Econometrics and either 25620 Derivative Securities or 25558 Issues in Corporate Finance.

UTS is a CFA Program Partner Institution based on the Bachelor of Business with a major in finance. CFA Institute has partnerships with select universities around the world that have embedded a significant percentage (70 per cent) of the CFA® (Chartered Financial Analyst®) Program Candidate Body of Knowledge into their degree programs.

The subjects in this major are offered at both City and Kuring-gai campuses.

**Completion requirements**

- 25666 Economics for Business 2 6cp
- 25622 Quantitative Business Analysis 6cp
- 25503 Investment Analysis 6cp
- 25410 Corporate Financial Analysis (Capstone) 6cp
- 25557 Corporate Finance: Theory and Practice 6cp
- 25541 International Financial Management 6cp
- 25558 Issues in Corporate Finance 6cp
- 25602 Ethics in Finance 6cp
- 25025 Economics and Finance of the Life Cycle 6cp
- 25620 Derivative Securities 6cp
- 25574 Commercial Bank Management 6cp
- 25576 Wealth Management 6cp
- 25577 Behavioural Finance 6cp
- 25578 Corporate Governance and Executive Compensation 6cp
- 25579 Applied Portfolio Management 6cp
- 25573 Time Series Econometrics 6cp
- 25575 Investment Banking 6cp

Total 48cp

**MAJ08441 Marketing**

The Marketing major develops a deep understanding of marketing so that managers can drive organisational growth through a profitable implementation of marketing thinking and strategies. It develops practical marketing competencies and essential skills to implement marketing-oriented strategies that allow companies to improve their performance.

Anti-requisite: SMJ08137 Advertising, SMJ08123 Marketing.

**Completion requirements**

- 24202 Consumer Behaviour 6cp
- 24309 Marketing Research 6cp
- 24210 Integrated Marketing Communications 6cp
- 24415 Marketing Planning and Strategy 6cp
- 24211 Applied Project in Marketing (Capstone) 6cp
- 24222 Marketing Channels 6cp
- 24223 New Product Marketing 6cp
- 24224 Pricing Strategies and Tactics 6cp
- 24205 Business-to-Business Marketing 6cp
- 24331 Marketing Analytics and Decisions 6cp
- 24220 International Marketing 6cp
- 24306 Services Marketing 6cp
- 24104 Emerging Marketing Issues and Social Media 6cp

Select 18 credit points from the following options: 18cp

Total 48cp

**MAJ08442 International Business**

The International Business major reflects the growing importance of the global economy in contemporary business activity. This major provides students with a foundation of core studies in international business and a range of international electives providing practical experiences in the international business arena.

21595 International Management Field Study involves overseas travel and related expenses (see the subject coordinator for further details).

Anti-requisite: MAJ08046 Extended Management, SMJ08129 International Management.

**Completion requirements**

- 21510 The Global Context of Management 6cp
- 21591 Transnational Management 6cp
- 21506 International Business Capstone 6cp
- 22420 International Marketing 6cp
- 21511 Global Operations and Supply Chain Management 6cp
- 21602 Strategy: Theory and Practice 6cp

Select 12 credit points from the following options: 12cp

- 21440 Management Skills 6cp
- 23304 Asian-Australian Economics Relations 6cp
- 22309 Accounting for Overseas Transactions 6cp
- 23564 Labour and Industry in the Global Context 6cp
- 21150 International Management Field Study 6cp
- 27350 International Business Transactions and the Law 6cp

Total 48cp

**MAJ08443 Tourism Management**

This major explores in depth the phenomenon of tourism and the functioning of the tourism industry. It examines the two-way relationship that exists between tourism and its sociocultural, economic, technological, political, legal and physical environments. Elective choices allow students to develop a comprehensive understanding of management, marketing and planning theories and practices in the context of specific tourism industry sectors.

Students are advised to enrol in the Professional Internship (Capstone) subject in the Autumn semester of their final year.

**Completion requirements**

- 27327 Tourism and Sustainability 6cp
- 27347 Hotel Management 6cp
- 27642 Tourism Marketing 6cp
- 27184 Dimensions of Tourism 6cp
- 27185 The Tourist Experience 6cp
- 27468 The Tourism Business 6cp
- 27523 Planning for Sustainable Destinations 6cp
- 27503 Professional Internship (Capstone) 6cp

Select 12 credit points from the following options: 12cp

- 27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
- 27347 Hotel Management 6cp
- 27348 Critical Issues in Global Tourism 6cp
- 27346 The Tourism Business 6cp
- 27350 Professional Internship (Capstone) 6cp
- 27347 Hotel Management 6cp
- 27348 Critical Issues in Global Tourism 6cp
- 27346 The Tourism Business 6cp
- 27350 Professional Internship (Capstone) 6cp

Total 48cp

**MAJ08445 Sport Management**

This major provides a comprehensive understanding of management and marketing theories and practices in the increasingly dynamic and specialist contexts in which sport is played, organised and managed. Graduates possess knowledge and skills in the management of sport experiences and resources, marketing and promotion of events, and current issues affecting sport globally.

Students are advised to enrol in the Professional Internship (Capstone) subject in the Autumn semester of their final year.

**Completion requirements**

- 27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
- 27184 Dimensions of Tourism 6cp
- 27185 The Tourist Experience 6cp
- 27468 The Tourism Business 6cp
MAJ08464 Human Resource Management

The Human Resource Management (HRM) major is designed to build on the foundations established in the core units of the Bachelor of Business and as such continues to emphasise the four contemporary themes that integrate the degree. It enables students to acquire a knowledge of the theoretical bases of HRM and employment relations, as well as developing understandings and competencies associated with the practice of management. The major also provides students with a foundation knowledge of HRM frameworks, both in Australia and internationally, as well as an understanding of the broader context in which organisations operate.


**Completion requirements**

21555 Human Resource Management 6cp
21036 Managing Strategic Performance 6cp
21407 Strategic Human Resource Management 6cp
21037 Managing Employee Relations 6cp
21440 Management Skills 6cp
21510 The Global Context of Management 6cp
21512 Understanding Organisations: Theory and Practice 6cp
21505 Human Resource Management (Capstone) 6cp

Total 48cp

MAJ08476 Management

The Management major aims to develop integrated knowledge and skills for effective leadership and management within a global, decentralised competitive business environment with its increasing emphasis on technology, quality, diversity and sustainability.

Participants acquire knowledge and apply skills in diverse managerial areas such as strategic decision-making, coaching and mentoring others, managing complex change within organisations, intervening within organisations to ensure better health and effectiveness, managing the value chain for greater effectiveness and efficiency and managing for sustainability. Choice of subjects within the major allows students to tailor their requirements for specific application within various sectors, for example, international management, public sector management and third sector management.

**Completion requirements**

21012 Governance and Sustainability 6cp
21717 International Management 6cp
21720 Human Resource Management 6cp
21722 Leadership, Coaching and Mentoring 6cp
21741 Managing Operations 6cp
21811 Global Strategic Management 6cp
21827 Change Management 6cp
21854 Innovation and Entrepreneurship 6cp

Total 48cp

MAJ08480 Marketing

The Marketing major develops an understanding so that managers can drive organisational growth through a profitable implementation of marketing thinking and strategies. It develops practical marketing competencies and essential skills to implement marketing oriented strategies that allow companies to improve their performance.

**Completion requirements**

27252 The Sport Industry 6cp
27161 Sport Marketing 6cp
27307 Sport Management 6cp
27253 Sport in the Global Marketplace 6cp
27350 Professional Internship (Capstone) 6cp
27100 Current Issues in Sport Business 6cp

Select 12 credit points from the following options: 12cp

27703 Olympic Games and Mega Events 6cp
27705 Event Management 6cp
27628 Law for Leisure, Sport and Tourism 6cp
27160 Sport and Exercise Psychology 6cp
27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
27216 Venue Management 6cp

Total 48cp

MAJ08483 Professional Accounting

The Professional Accounting major offers graduates in disciplines other than accounting and non-university qualified accountants, such as TAFE Diplomates with extensive accounting experience, the opportunity to meet the academic qualifications necessary for professional membership of CPA Australia and the Institute of Chartered Accountants in Australia.

Industry demand for work readiness expertise in the accounting profession has never been higher. As well as expecting superior professionals, employers now require accountants to be good team players with excellent interpersonal skills, and a mature understanding of the business environment in which they operate.

Students are provided the opportunity to acquire knowledge necessary for the development of information products to assess an organisation’s performance using leading-edge accounting methods and practices. This includes measuring environmental risk, examining the adequacy of governance and control mechanisms, addressing the effectiveness of quality management processes, assessing control over treasury operations, and benchmarking corporate strategy development.

**Completion requirements**

22705 Management Planning and Control 6cp
22730 Auditing and Assurance Services 6cp
22743 Business Valuation and Financial Analysis 6cp
22748 Financial Reporting and Analysis 6cp
22753 Cost Management and Analysis 6cp
22754 Corporate Accounting 6cp
77938 Introduction to Taxation Law 6cp
77947 Companies and Securities Law 6cp

Total 48cp

MAJ08486 Project Management

Select 48 credit points from the following options: 48cp

15315 Project Management Principles 6cp
15336 Systems Thinking for Managers 6cp
15330 Program Management 6cp
15325 Value Management, Negotiation and Conflict Management 6cp
15346 Governance and Leadership of Project Management 6cp
15327 Managing Project Complexity 6cp
15314 Project Implementation 6cp

Total 48cp

MAJ08517 Management

21491 Cross Cultural Management 6cp
21440 Management Skills 6cp
21510 The Global Context of Management 6cp
21555 Human Resource Management 6cp
21227 Innovation and Entrepreneurship 6cp
21540 Management Capstone 6cp

CBK90876 Electives (Management) 12cp

Total 48cp

MAJ08860 Engineering Management

In a world where innovation is a key to success, leaders are called to the fore to manage people and projects. The Engineering Management major is designed for students who have a technical background or a keen interest in technology and therefore a strong alignment with analytical approaches. From this platform the objectives are underpinned by the desire to expose students to a broader body of knowledge and range of approaches than experienced in a purely technical framework.

A key issue is the benefit that accrues from supplementing analytical and mathematical modelling approaches with business and social science skills. Much of the value and strength of the Engineering Management major relate to consideration of approaches and
perceptions that are extensions of, or build upon, an engineering/scientific view point. The differences between technocratic approaches and human and societal constructs are brought into sharp focus broadening the perspectives of students.

The major is specifically designed to enhance understanding of the need for technology, people and society to be viewed as closely interrelated aspects of all engineering and business activity.

Awarding of this major on an academic transcript also requires the completion of a graduate project in this broad discipline area.

**Completion requirements**

Select 24 credit points from the following options: 24cp

- 49001 Judgment and Decision Making 6cp
- 49002 Managing Projects 6cp
- 49003 Economic Evaluation 6cp
- 49006 Risk Management in Engineering 6cp
- 49016 Technology and Innovation Management 6cp
- 49036 Quality and Operations Management Systems 6cp
- 49039 Quality Planning and Analysis 6cp
- 49098 Engineering Financial Control 6cp
- 49069 Leadership and Responsibility 6cp
- 49680 Value Chain Engineering Systems 6cp

Total 24cp

**MAJ08914 Human Resource Development**

013979 Organisational Learning and Change: Local and Global 6cp

013151 People Management 6cp

013097 Human Resource Development in Organisations 6cp

013976 Strategic Human Resource Development 6cp

013972 Organisational Learning 6cp

013124 Work and People 6cp

CBK90553 Options 12cp

STM90647 Core subjects 24cp

010076 Professional Practice 1 Organisational Learning 6cp

010077 Professional Practice 2 Organisational Learning 6cp

Total 84cp

**MAJ08915 Management**

STM90647 Core subjects 24cp

013097 Human Resource Development in Organisations 6cp

013124 Work and People 6cp

013972 Organisational Learning 6cp

013976 Strategic Human Resource Development 6cp

CBK90788 Options 12cp

STM90772 Management 24cp

Total 84cp

**MAJ08918 Chile**

Chile runs for some 5000km down the west coast mountain spine of Latin America, with the country never wider than 180km. The landscape is extremely varied, with hot deserts in the north, a fertile 'Mediterranean' heartland, and forests, lakes and fjords in the south. Because of its relatively stable pace of export-led growth, Chile is 'Mediterranean' heartland, and forests, lakes and fjords in the south.

2008 Olympics, China focused the world's attention on its remarkable characteristics, and its expanding influence in the Asia-Pacific region, make the study of China and Chinese culture important for Australia. After completing a set program of study at UTS and through arrangements made by UTS: International Studies, students spend two consecutive semesters studying at one of the following universities:

- Shanghai University, Shanghai
- Shaxi University, Taiyuan
- Tianjin Normal University, Tianjin
- Yunnan Normal University, Kunming

Zhejiang University, Hangzhou. In both semesters the focus is on the study of language and culture. Students are assessed separately on each semester and assessment is based on the subjects undertaken at the host institutions, as well as as assessments administered by UTS: International Studies.
Students may expect that no greater costs are incurred through undertaking a period of In-country Study in China than are involved in living away from home in Sydney.

In exceptional circumstances, students with advanced skills in Chinese are excluded from the Chinese Language and Culture program and are required to substitute other appropriate subjects from the list of approved alternative subjects. These subjects may be other subjects on offer in the international studies program, including those relating to the study of contemporary society, or those focusing on another language and culture. Students need to obtain the approval of the head of UTS: International Studies before they can vary any of their subjects of study in the program.

Locations

Hangzhou
Hangzhou is the capital of Zhejiang Province on China’s eastern seaboard, 180km south-west of Shanghai. As a former national capital, famous for its rich culture and the beautiful West Lake, Hangzhou’s mild climate makes it one of China’s most pleasant cities to live in. It is the home of the Chinese silk industry (there is a vast silk market in the centre of town) and a major tea centre, producing the famous Dragon Well Tea.

Hangzhou’s Zhejiang University, founded in 1897, is one of the oldest and largest universities in China, and particularly well known for its studies of engineering, ophthalmics and economics. It has more than 33,000 full-time students and over 10,000 staff members, with 20 faculties (schools) and 97 majors for undergraduate students, 194 master’s degree programs and 106 doctoral programs. The university has a purpose-built overseas student dormitory on campus and has proven to be one of the most popular in-country study destinations for students in UTS: International Studies’ China program.

Kunming
Kunming is the capital city of Yunnan Province in south-western China, bordering Burma, Laos and Vietnam. Known in China as ‘spring city’ for its year-round pleasant weather, Kunming’s location offers access to Yunnan’s scenic beauty and diverse ethnic minority cultures.

Founded in 1946, Yunnan Normal University developed during World War II from the Teachers’ College of the Southwest Associated University, established through a merger of Beijing University, Qinghua University and Nankai University - the three best universities in China at that time. Yunnan Normal University is known for its strength in the areas of education and studies on the cultures of minority nationalities in south-western China. With the UNESCO-sponsored Southwest China In-service English Training Centre on its campus, it has established strong international links and has more than 5000 full-time students and 4000 adult students, with 14 faculties/departments. The university has a purpose-built overseas student dormitory on campus.

Shanghai
Shanghai, situated on the Yangtze River Delta in east China, is the largest city of the People’s Republic of China and the eighth largest in the world. It is one of China’s most important cultural, commercial, financial, industrial and communication centres. Shanghai is also one of the world’s busiest ports. Considered by many as China’s most cosmopolitan and sophisticated city, its skyscrapers and modern lifestyle highlight China’s recent economic development.

Shanghai University is a public, comprehensive university. One of China’s leading research universities, it ranks among the top 50 in most national rankings. In-country study students study Mandarin at the Yanchang campus.

Tianjin
Lying 120km south-east of Beijing, Tianjin is one of the four municipalities of China directly under the administration of the central government. It is the largest open seaport and one of the most important industrial, commercial and cultural centres in north China. It was once a treaty port with large areas claimed by Western powers as concessions, and many European-style structures have survived intact. Since the 1980s, Tianjin has been in the forefront of China’s opening to the world and currently more than 8000 foreign-funded firms operate in the city.

Founded in 1958, Tianjin Normal University is the key comprehensive teachers’ training institution in Tianjin. It is well known for studies in the areas of development psychology, as well as languages and culture. It has more than 3000 full-time students and 2000 adult students, with 14 faculties/departments. The university has a purpose-built overseas student dormitory on campus.

Semester dates for Chinese universities are Spring (late February to late June) and Autumn (early September to mid January).

Completion requirements

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<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<td>8cp</td>
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<tr>
<td>976111</td>
<td>Contemporary China</td>
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<td>977110</td>
<td>In-country Study 1: China</td>
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<td>32cp</td>
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<td>96cp</td>
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MAJ08920 France

France is known for its key role in the history and development of European culture and its rich traditions from literature and the arts through to cuisine, sport and style. Modern France, while preserving a strong link to the land, is at the forefront of many technological advances. A leading international player, its recent Republican history has enabled it to remain fiercely independent and at the same time central to the European Union. Geographically diverse, it is said France offers all the landscapes of Europe in microcosm. From the Mediterranean to the English Channel, each region has a strong identity, often retaining ties with older cultures and its many neighbours.

Students spend two consecutive semesters studying at one of the following universities or institutes:

- Université Michel de Montaigne Bordeaux 3, Bordeaux
- Université de Caen Basse-Normandie, Caen
- Télécom and Management SudParis, Évry
- Université Lumière Lyon 2, Lyon
- Université Poitiers, Poitiers
- Université de Reims Champagne-Ardenne, Reims
- Université Rennes 2 - Haute Bretagne, Rennes
- Université de Strasbourg, Strasbourg
- Université de Toulon et du Var, Toulon
- Université de la Nouvelle Calédonie, Nouméa

The location and content of each student’s period of in-country study in France is determined by the level of their language competence in French. Generally speaking, students who have a sound working knowledge of French before their entrance to UTS (usually defined as HSC 3-unit or a good pass in 2-unit French) can study at any of the abovementioned universities. Such students study an appropriate two-semester program of host university subjects broadly relating to French and Francophone language, society and culture.

All other students spend a first semester gained in the study of language and culture at the universities offering special language programs, going on to a second semester of subjects chosen more broadly from the university’s curriculum. Special language provision is currently available at Bordeaux’s Département d’Études de Français Langue Étrangère (DEFLE), Caen’s Centre d’Enseignement du Français pour Étrangers (CEFÉ), Lyon’s Centre International d’Études Françaises (CIEF), Poitiers’ Centre de Français Langue Étrangère (CFLE), Rennes’ Centre International Rennais d’Études de Français pour Étrangers (CIREFE) and the Centre International d’Études Françaises (CIEF) in Reims.

Students are assessed on each semester separately. Assessment is based on the subjects studied at the host university, as well as project work and other tests administered by UTS: International Studies. Students in France are charged a non-refundable state medical insurance fee (sécurité sociale) for each semester of study. Details may change, but students should set aside a total of around A$800 for this cost, which UTS: International Studies is unable to meet on students’ behalf.
Students should be aware that costs of living in France are generally slightly higher than in Australia, though the cost of student accommodation is very reasonable.

Locations

Bordeaux
Capital of Aquitaine, Bordeaux is a city known largely for its wine production and its port. Situated on the river Garonne, it is close to the Pyrenees in the south-west of France, and also within range of the Atlantic beaches. Its heritage is reflected in the 18th century architecture and impressive literary and artistic tradition.

The Université Michel de Montaigne has a strong emphasis on French art and culture, with teaching covering literature, philosophy, history, art history and archaeology, geography, and languages. The campus, nestled among vineyards, is a bus ride from the city centre. There is an excellent modern language centre, and accommodation options include privately rented flats in the city.

Caen
Caen is located in Normandy, near the north coast of France. The city is built of golden stone and is rich in historical associations, which range from abbeys and a chateau commenced by William the Conqueror, through to the D-Day beach landings of World War II.

The university is over five centuries old, but the original buildings, like much of the city, were destroyed during World War II. It is now housed in impressive structures built with international funding around 1950, and the university’s emblem is the phoenix as a symbol of rebirth. It has 26,000 students, and faculties of Political Science, Law, Economics and Management, Psychology, History, Physical Science and Sport, as well as a number of teaching institutions. It has highly respected, well-developed language and cultural programs conducted through its associated language centre. Accommodation is available in studios or residences.

Evry
Situated just south of Paris, Evry is a new town which combines a number of existing villages with more modern buildings. It is home to the Cathédrale de la Résurrection, constructed in 1995, and is close to the much debated Disneyland-Paris.

The town is well placed with respect to the European institutions located in Strasbourg. With the recent merger of its three universities, Strasbourg has a student population of around 60,000. Rennes is a mixture of late medieval, timbered buildings and elegant 18th and 19th century urban planning. The Atlantic coast is less than an hour away, and Paris is a two-hour trip by TGV (high-speed train).

The present university was established in 1699 and is one of two universities in Rennes. It has 21,000 students enrolled in five faculties: Languages, Social Sciences, Arts / Letters / Communications, Human Sciences (including linguistics, psychology, education and sociology), as well as classes in Breton language and culture, physical education and sports. Students at Rennes often take classes in the French Language and Culture Centre. Accommodation is available in residences or privately.

Lyon
Lyon is the capital of Brittany and the centre of Celtic culture and traditions in France. It has a population of about 330,000, of whom 60,000 are students. Rennes is a mixture of late medieval, timbered buildings and elegant 18th and 19th century urban planning. The Atlantic coast is less than an hour away, and Paris is a two-hour trip by TGV (high-speed train).

The current population of 200,000 comprises Kanaks, descendants of European settlers, other Pacific islanders, and people who trace their heritage back to other former French colonies. Many of the Kanak population maintain aspects of traditional cultures side-by-side with contemporary Western social and cultural infrastructures. As the capital, Nouméa serves as a relay point between the various communities on the islands, and between New Caledonia and the wider world.

The université de la Nouvelle Calédonie, founded in 1999, offers courses in law, economics, management, humanities, languages, social science and science. It has a campus on the peninsula of Nouvill, and another at Magenta in the eastern suburbs of Nouméa. The Nouville campus is adjacent to a French language school, CREFAC, with which the university has an agreement.

www.univ-nc.nc

Nouméa, New Caledonia
New Caledonia offers a very different version of ‘Frenchness’. Designated by the French government as a ‘Pays d’Outre Mer’ (overseas country), the group of Pacific islands retains administrative and cultural links with France, reflecting its 150-year colonial history. The current population of 200,000 comprises Kanaks, descendants of European settlers, other Pacific islanders, and people who trace their heritage back to other former French colonies. Many of the Kanak population maintain aspects of traditional cultures side-by-side with contemporary Western social and cultural infrastructures. As the capital, Nouméa serves as a relay point between the various communities on the islands, and between New Caledonia and the wider world.

Université de la Nouvelle Calédonie, founded in 1999, offers courses in law, economics, management, humanities, languages, social science and science. It has a campus on the peninsula of Nouvill, and another at Magenta in the eastern suburbs of Nouméa. The Nouville campus is adjacent to a French language school, CREFAC, with which the university has an agreement.

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Poitiers
Situated not far from the Atlantic coast, Poitiers retains an old city centre boasting many of the finest Romanesque churches in France. At the other end of the spectrum, it is also home to the futuristic theme park Futuroscope. Nearby attractions include the holiday resort of La Rochelle, the island of Oleron, and Angoulême, home of France’s national comic books museum.

The university, founded as long ago as 1431, has made a full contribution to European thought, with writers such as Descartes and Francis Bacon having studied there. Today it offers an up-to-date multidisciplinary education with strengths in human sciences and the arts, language and literature, sciences and law and new technologies. There is a strong interest in new technologies and language learning, and accommodation possibilities include city centre apartments.

Reims
Reims is in the heart of the world-famous Champagne region. It is not a large city, but has a key role in French history, and consequently it attracts substantial numbers of tourists because of its cathedral and its associations with Joan of Arc, the King of France and the Holy Roman Emperor. Reims is about one-and-a-half hours from Paris by train and is close to Belgium.

The Université de Reims, Champagne-Ardenne is a comprehensive national university and has faculties of Science, Applied Science, Health Sciences and Engineering, Arts and Humanities, with special research interests in local and regional politics, literature and identity, and, of course, wine-making. The current university dates from the post-war era and at present has about 30,000 students who attend a number of different campuses spread throughout the city. Accommodation possibilities include private rentals.

Rennes
Rennes is the capital of Brittany and the centre of Celtic culture and traditions in France. It has a population of about 330,000, of whom 60,000 are students. Rennes is a mixture of late medieval, timbered buildings and elegant 18th and 19th century urban planning. The Atlantic coast is less than an hour away, and Paris is a two-hour trip by TGV (high-speed train).

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Strasbourg
Strasbourg calls itself ‘the capital of Europe’. It is the location of the European Parliament and the Council of Europe, and is a centre for economic development, which is rapidly expanding and progressing. Strasbourg has great pride in its local identity, but is also very cosmopolitan. The city has extensive late medieval sections, an imposing Gothic cathedral and impressive modern buildings created for the European institutions located in Strasbourg. With the recent merger of its three universities, Strasbourg has a student population of around 50,000.

The university has a Faculty of Law, plus institutes for Political Science (IEP), Business and Management Studies (EMS); UTS: International Studies has exchange agreements with each of them. As expected, fields of study offered include options with a focus on Europe and the European Union. The university does not have a single campus, but most of its buildings are close to the centre of the city, in an area of strong German architectural influence, built in the late 19th and 20th centuries. Accommodation options include private studios or shared apartments.

Toulon
Toulon is a port city on the Mediterranean coast, with an impressive naval history. Toulon is part of the French Riviera, with Nice and Marseilles within easy train trips, and the Provençal hinterlands a short drive away. Université de Toulon et du Var is located at La Garde, a modern suburb that has grown from an old town approximately 10km from the port area of Toulon and 5-15km from some of the best beaches in Europe.
The university was established in 1968 and has approximately 10,000 students enrolled in five faculties: Law, Arts, Economics and Management, Science and Technology, and Engineering. The Université de Toulon also has an associated Technological Institute. The programs at Toulon are ideally suited to business and law students. Accommodation options include residences, and privately operated studios very close to the campus and the ‘Grand Var’ shopping complex.

**Completion requirements**

- 976001 Foundations in International Studies 8cp
- 976411 Contemporary France 8cp
- 977410 In-country Study 1: France 24cp
- 978410 In-country Study 2: France 24cp
- CBK09483 French Language and Culture 32cp
- Total 96cp

**MAJ08921 Germany**

Germany is the largest country in the European Union. Historically, it has linked Slavic Eastern Europe with Western Europe. This function of Germany as the bridge between West and East still plays a very important role in European political and economic developments. Germany is well known as a major economic power in the world and also has a rich and varied culture and artistic heritage: from some of the world’s most influential modern philosophers, such as Nietzsche and Adorno; to the cream of classical composers like Bach and Beethoven. German is the native language of about 100 million people, the official language of Germany, Austria, Luxembourg and Liechtenstein and one of the official languages of Switzerland. It is also the most common lingua franca in Eastern Europe.

There are no restrictions on entry to the Germany major of the International Studies program. Students who already have a sound working knowledge of German on entry to UTS have more options for the development of their study program when they undertake in-country study in Germany; however, it is also possible to enter the Germany major with no previous knowledge of the German language.

Through arrangements made by UTS: International Studies, students spend two consecutive semesters studying at one of the following universities:

- Georg-Augustus Universität Göttingen, Göttingen
- Technische Universität Berlin, Berlin
- Universität Karlsruhe, Karlsruhe
- Universität Konstanz, Konstanz
- Universität Potsdam, Potsdam
- Universität Regensburg, Regensburg
- Universität des Saarlandes, Saarbrücken
- Universität Tübingen, Tübingen.

The location and content of each student’s period of in-country study in Germany is determined by the level of their language competence in German. Generally speaking, students who have a sound working knowledge of German before their entrance to UTS (usually defined as HSC 3-unit or a good pass in 2-unit German) can study at any of the abovementioned universities. Such students study an appropriate two-semester program of host university subjects broadly relating to German language, society and culture. All other students spend a first semester engaged in the study of language and culture at the universities offering special language programs, going on to a second semester of subjects chosen more broadly from the university’s curriculum. Students are assessed on each semester separately and assessment is based on the subjects undertaken at the host institutions, as well as project work administered by UTS: International Studies.

The costs of living in Germany are generally slightly higher than in Australia. On the whole, accommodation is cheaper than in Sydney but eating in restaurants is considerably more expensive. It is, however, possible to spend a year there on an amount roughly comparable to living away from home in Sydney.

**Locations**

**Göttingen**

Göttingen, a city of around 130,000 inhabitants, lies in the geographical heart of Germany. The city is over one thousand years old, and was an important Hanseatic commercial centre in the Middle Ages. It suffered from the effects of the Thirty Years’ War in the 17th century, but in 1737 George II, King of England and Elector of Hanover, founded a university there, and today Göttingen is one of Germany’s best renowned university towns. The brothers Grimm, world-known for their collection of fairy tales, worked in the impressive Göttingen library. More than 40 Nobel Prize winners lived and worked in Göttingen in the 20th century, and the city’s lively, cosmopolitan feel is, in large part, the product of the prominent role played by science and education in the past and present, and to the large proportion of students.

Approximately 24,000 students are currently enrolled at the Georg-Augustus University Göttingen. This includes almost 3000 international students. There are 13 faculties and around 170 departments, with over 2000 academic staff. The university is particularly eminent in the natural sciences, but also has a strong tradition in the humanities and social sciences. The faculties encompass Agriculture, Biology, Chemistry, Forestry and Forest Ecology, Geosciences and Geography, Mathematics, Physics, Law, Social Sciences, Economics and Business Administration, Theology and Arts. The Medical Faculty is one of the largest in Germany.

**Berlin**

Berlin is Germany’s historical and present-day capital city and is the country’s largest and ethnically and culturally most diverse city. It is a major centre of culture, politics, media and science and is a very popular tourist destination within Europe. The city of Berlin is home to world-renowned museums, universities and research institutes as well as numerous sporting and cultural events. Famous for its festivals, contemporary architecture, nightlife and avant-garde art, Berlin is an exciting, cosmopolitan and increasingly global city to live and study in.

The Technische Universität Berlin is located in the central west of the city in the Charlottenburg district on Strasse des 17. Juni.

Internationally renowned, TU Berlin has a history which spans back to 1770 and has the distinction of being Germany’s first technical university. TU Berlin is home to almost 30,000 students and possesses the highest percentage of international students of any German university. Research and teaching at the TU Berlin covers a range of academic disciplines, including engineering and natural sciences, economics, the humanities and social sciences. Semester dates are early April to mid July (Summer semester) and early October to mid February (Winter semester).

www.tu-berlin.de

**Karlsruhe**

Karlsruhe was established in 1715. Its urban planning, unique in the early 18th century with its streets and avenues radiating like sunbeams in all directions from the palace, is still visible and facilitates orientation. The city is located in the Rhine Basin. It borders on the Black Forest and is in easy reach of France. It is mainly a city of trade and administration. Several significant research and development institutions have contributed to giving Karlsruhe a leading position in international high-tech development. This region, between the Black Forest and the River Rhine, has the highest per capita number of researchers in Germany. Karlsruhe is also well known for being the home of the two highest federal courts of Germany: the Supreme Constitutional Court and the Court of Appeals. However, this is not to say that cultural events are a rarity. The ‘Badisches Staatstheater’, the concert hall, several museums, art galleries, the ‘Barockschloß’, libraries and the internationally significant ‘Zentrum für Kunst und Medien’ (a centre for art and media) offer a great variety of events for those who love art, music and theatre. Tennis courts, soccer fields, public swimming pools, ice skating rinks, golf courses, riding stables, biking and hiking trails, and airports for recreational pilots are also available for sports fanatics.

The École Polytechnique in Paris was the forerunner of and model for this university, which was founded as a polytechnic on 7 October 1825. Taking its first students in 1832, the polytechnic was expanded and reorganised, in 1967 renamed University Karlsruhe, but retaining its ‘Technical School’ title as well. Today the University Karlsruhe is a large and modern institution for teaching and research. Engineering and natural sciences, business administration and engineering courses are definitely the strongest university programs here. About 17,000 students currently study at Karlsruhe, 15 per cent from foreign countries. Research innovations are in information and communication technologies, energy techniques, automation and assembly techniques, and environmental research. Faculties include Business Administration, Humanities, Bio- and Geo-Sciences, Mathematics, Physics, Chemistry, Architecture, Engineering, Chemical Engineering, Computer Science and Information Technology. There are plenty of extracurricular activities on campus: the student cultural centre, the Collegium Musicum, the university choir, the symphony orchestra, the university big band, the academic flyers, the academic sailing club, and the solar vehicle.
Konstanz

Konstanz is a small city in the south-west of Germany. It has a very picturesque medieval centre and the city is adjacent to the Swiss border, on Lake Constance. It is an exceptionally prosperous part of Germany with a very long history. The climate of the Alpine foothills is mild, and the region belongs to those German areas with the most amount of sunshine. The Black Forest can be reached in about one hour, and Konstanz prides itself on being an ideal starting point for mountain trips into the Swiss, Austrian and German Alps.

University Konstanz was established in 1966. A central concept has been the principle of developing ‘teaching on the basis of research’ and making the courses very student-oriented. This has led to University Konstanz being heralded a model university. A significant expression of this spirit of reform was the establishment of a university library accessible on a 24-hour basis. From its inception, University Konstanz focused on new courses of studies and study-models designed to encourage interdisciplinary cooperation. It is most famous for its departments of Economics, Public Policy and Cultural Studies. Currently there are about 10,000 students enrolled in over 40 degree programs. The campus is located on a hill about 10 minutes by bus from the city, on the shores of Lake Constance. Faculties include Humanities, Social Sciences, Education, Economics, Law, Mathematics, Physics, Chemistry, Biology, Psychology, and Computer Information.

Potsdam

Potsdam became the capital of the state of Brandenburg after German unification in 1990. It is located on the Havel River, and borders on south-west suburbs of Berlin. In the 17th and 18th centuries Potsdam was the residence of the royal family of Prussia. The Sans Souci Palace led to University Konstanz being heralded a model university. A central concept has been the principle of developing ‘teaching on the basis of research’ and making the courses very student-oriented. This has led to University Konstanz being heralded a model university. A significant expression of this spirit of reform was the establishment of a university library accessible on a 24-hour basis. From its inception, University Konstanz focused on new courses of studies and study-models designed to encourage interdisciplinary cooperation. It is most famous for its departments of Economics, Public Policy and Cultural Studies. Currently there are about 10,000 students enrolled in over 40 degree programs. The campus is located on a hill about 10 minutes by bus from the city, on the shores of Lake Constance. Faculties include Humanities, Social Sciences, Education, Economics, Law, Mathematics, Physics, Chemistry, Biology, Psychology, and Computer Information.

University Potsdam was established in 1991 and is one of the youngest universities in Germany. It aims at being a ‘small but excellent’ institution of higher education with a traditional, generalist profile for 12,000-15,000 students. About 250 professors and 600 other full-time academic staff are engaged in teaching and research. Special emphasis is put on the four ‘flagship’ areas: general linguistics, including computer linguistics; history, with a focus on modern history and European Judaism; science and mathematics; and the Potsdam teacher training model. This last area offers an integrated and overlapping education as well as comprehensive, advanced training for the teaching profession. The university is located in the parklands surrounding the elegant palaces. Despite its historical ambience, Potsdam is becoming one of the most modern venues in Germany for research in science and technology. Faculties include Law, Mathematics and Science, Arts, Human Sciences, Economics and Social Science.

Regensburg

The city of Regensburg spreads along the banks of the Danube. Once the Bavarian capital, Regensburg offers the remnants of 2000 years of cultural history. It was founded by the Romans in the second century AD and became a very wealthy merchant city in the Middle Ages. It served as the seat of the Imperial Diet of the Holy Roman Empire of the German Nation for almost three centuries until the empire was dissolved in the defeat of the Napoleonic war in 1806. It is one of the most captivating cities in Germany. The richness of history and the artistic wealth of the city have had a conspicuous influence on daily life. Fortunately escaping destruction in World War II, it remains today a historical blend of the old and the new. The first stone bridge to span the Danube, the Steinerne Brücke, as well as the cathedral still retain their original character in perfect intactness. Today Regensburg is said to be the most beautiful medieval city in Germany and has one of the highest productivity rates in all of Germany. Munich is easily reachable by train in about one hour.

Founded in 1962 as the fourth fully-fledged Bavarian university, University Regensburg comprises 12 faculties, providing a full range of academic subjects. In 1989 the university established a new course of studies: biochemistry. In 1994, business informatics (Wirtschaftsinformatik) was added together with a attached non-profit Institute of Banking Informatics. Training in electronic data processing, foreign languages, rhetoric and presentational skills is offered to students of all faculties to further prepare them for the modern working world. At present, about 16,000 students are enrolled at university Regensburg. The campus atmosphere and the minimal distances between buildings are conducive to a more efficient way of studying. The university library holds more than three million volumes. The university’s attractiveness is also due in part to the charms of the historical city and the beautiful surrounding landscape. Leisure activities include a wide range of cultural events.

Tübingen

This tranquil, picturesque university town, just 35km south of Stuttgart, is a place to wander winding laneways, past half-timbered houses and old stone walls. The university is more than 500 years old and has always played as much of a role in characterising the city’s outward appearance as it has in weaving its inner social fabric and its economic structure. Today’s students are the proud custodians of a rigorous liberal intellectual tradition, and can be seen in every café plotting earnestly to save the world. With an overall population of 85,000 and a presence of some 26,000 students, Tübingen has the largest ‘student density’ of all German university towns. It is not only an intellectual city where major contributions to European intellectual history were written, but also a very romantic town.

In 1477, Eberhard im Bart, Count and later Duke of Württemberg, established the founding tenets of University Tübingen, which the institution has followed to this day. Today, the university’s character is marked by an awareness of tradition and a cosmopolitan atmosphere. The university’s academic reputation is determined by the research achievements of more than 700 professors and about 2000 other full-time academic staff. The tradition of the old universitas scientiarum, encompassing a wide variety of fields from theology, jurisprudence and philosophy to economics, the social sciences, languages and cultural studies and to medicine, mathematics and the natural sciences, is conducive to an effective interdisciplinary cooperation between these fields. The University’s faculties include Protestant Theology, Catholic Theology, Law, Economics and Business Administration, Medicine, Philosophy, Social and Behavioural Sciences, Modern Languages, History, Cultural Sciences, Mathematics, Physics, Chemistry and Pharmacy, Biology, Geosciences and Informatics.

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Italy

Italy (population 60 million) is a country of south-central Europe, occupying a peninsula that cuts deep into the Mediterranean Sea. The mountainous landscape had a profound impact on the country's political and economic development, fostering throughout history the creation of many independent states. Italy's history as an independent, democratic state is relatively recent, dating back to 1946. Since World War II, increasing numbers of Italians have moved from the countryside to the rapidly industrialising cities, thus generating significant and often abrupt transformations of traditional ways of life. Italy is often dubbed the world's 'living art gallery', where history and culture surround you on every step. At the same time the countryside preserves most of its poetic beauty and agriculture still plays a substantial role in the overall economy.

Students may expect that slightly greater costs will be incurred administered by UTS: International Studies. undertaklen at the host institutions, as well as project and essay work by the Institute for International Studies. Students are assessed on still plays a substantial role in the overall economy.

The Italy major has provision for both beginners and those who have previously studied Italian. The choice of location depends primarily on the level of Italian language proficiency attained by each student prior to their period of In-country Study.

Bergamo

Bergamo (population 140,000) is situated in central Lombardy, 50 km east of Milan, at the foot of the Alps. Città alta, the old part of the town, built inside the 16th-century Venetian walls, is rich in historical and artistic sites, while città bassa, the lower part of the town, is built on the edge of the Po Valley. The province of Bergamo is one of the richest in Italy, relatively modern, Bergamo bassa is connected by a funicular railway to spectacular and historic Bergamo alta, 400 m above the plain. Bergamo alta is the main attraction for tourists and a weekend destination for the Milanese. Local particularities include a complex dialect, now spoken mainly by older natives of the town. Università degli studi di Bergamo has been a state university since November 1992. Before then it was the Istituto Universitario di Bergamo, set up in 1968. It is a relatively small university with about 7,000 students and 174 teaching staff. It has three faculties: Foreign Languages and Literatures, Economics and Business Administration, and Engineering. Two courses of particular interest for International Studies' students are History of the Italian Language and Italian Literature.

Bologna

Bologna (population 380,000) is one of the most vibrant Italian cities. Noted at the centre of the rich and lively Emilia-Romagna region, Bologna boasts splendid monuments, a lifestyle well above the Italian average and a huge offering in terms of culture, sport and entertainment. The students in the city provide a dynamic atmosphere that is missing in smaller Emilian cities. Originating as an Etruscan town in the 6th century BC, Bologna became a European intellectual centre with the founding of its University in 1088. The historical centre is one of the best preserved in Italy, with churches and palaces dating back to the Renaissance, the Baroque and the 18th and 19th centuries. Bologna is also a very important industrial centre. The climate can be very cold in the winter. Bologna is also close to the Riviera Adriatica, with seaside resorts attracting numerous tourists in the summer months.

Università degli studi di Bologna, founded in 1088, is one of the oldest universities in the world. With around 80,000 students, it is also one of the biggest in the country. Among its teaching staff are world-famous public figures such as Romano Prodi and Umberto Eco. The faculties are Agriculture, Cultural and Conservation Studies, Economics, Education, Engineering, Foreign Languages and Literature, Industrial Chemistry, Law, Literature and Philosophy, Mathematical, Physical and Natural Sciences, Medicine and Surgery, Pharmacy, Political Science, Psychology, Statistics and Veterinary Science. Of particular interest are the courses offered by Discipline delle Arti, della Musica e dello Spettacolo (DAMS) (Performing Arts, Music and Mass Communications), as well as the Faculty of Law, the oldest in the world.

Catania

Catania (population 376,000) is the second largest city in Sicily, situated between the slopes of Mount Etna and the Ionian Sea. The history of the city has been conditioned by a succession of foreign dominations and the unpredictability of Etna. Catania was repeatedly destroyed over the centuries by eruptions and earthquakes, the most devastating taking place in 1693. In recent years Catania has seen a growth of tourism, due to its elegant architecture and a magnificent coastline. Locals are always proud to describe their city as 'white', due to the prevalent building technique of combining local lava stone with the white stone from Siracusa.

The University has about 55,000 students, 1,500 academic staff and 1,500 administrative staff. It is the oldest University in Sicily, founded in 1434. The old University building, in which are the administrative offices, is located in the centre of the town. The faculties at Università degli studi di Catania are Law, Political Science, Economics, Medicine, Arts and Philosophy, Mathematical, Physical and Natural Sciences, Pharmacy, Engineering, Agriculture and Education. Of particular interest is the Faculty of Arts, with its long tradition of excellence in teaching and research.

Genoa

Genoa (population 706,000) is a major Mediterranean seaport in north-western Italy. It is the capital of the Liguria region and the centre of the Italian Riviera. Once a powerful maritime republic and the birthplace of Christopher Columbus, the city is known as La Superba ('proud', 'vain'). Despite the more recent economic decline, Genoa has a grand cultural heritage. Its streets are filled with medieval cathedrals, glorious palaces and Renaissance fountains. It is a wonderfully eclectic city dominated by an always busy port and the narrow alleyways of the medieval centre. In addition to being a city rich with art treasures, Genoa is attractive for the nearby beach resorts of the Ligurian coastline.

Università degli studi di Genova is a large university with 40,000 students, 1,800 teaching and research staff and about 1,580 administrative staff. It has 12 faculties (including Architecture, Business, Education, Law, Modern Languages, Political Science and Arts) and a number of regional campuses (Imperia, Savona, Santa Margherita Ligure, Ventimiglia, La Spezia and Acqui Terme). The Faculty of Business has a very high standing in the Italian academia, reinforcing Genoa’s long-standing tradition in the field of international commerce. Special emphasis is placed on international and maritime subjects, in line with Genoa’s tradition as a maritime republic.

Lecce

Lecce (population 100,000) lies in the southern tip of the heel of Italy in the Puglia region. It has a population of around 100,000 and is home to some beautiful examples of baroque architecture. Many of its buildings are built of the characteristic pieta leccese, a light yellow, easily worked limestone. The region is well known for its clear blue beaches, unspoilt beaches and landscapes and its abundant olive groves. The city’s classical remains include an underground burial chamber from the 4th century BC and a Roman amphitheatre. Lecce is also a lively city with elegant shops and a busy nightlife.

Università degli studi di Lecce was founded in 1960. It has more than 25,000 students and eight faculties (Mathematical, Physical and Natural Sciences, Economics, Engineering, Education, Foreign Languages and Literatures, Arts, Conservation of Cultural Heritage and Law). Of special note is the Language Centre and the program of Australian studies. Also, for the artistically minded, there are interesting courses offered by the Faculty of Conservation of Cultural Heritage.

Milan

Milan (population 1.6 million) is the capital of Lombardy, the richest, most industrialised and populous northern region of Italy and arguably the most important commercial and design centre in Europe. Milan carries both the advantages and the disadvantages associated with living in a big city, but the advantages outweigh the potential drawbacks by far. The rich cultural life in Milan offers valuable experiences to students interested in art, film and theatre. As a major European rail hub and a city serviced by two international airports (Linate and Malpensa), Milan provides for easy travelling both within Italy and internationally. Public transport is also excellent.
The Catholic University of the Sacred Heart is the largest private university in Italy, with approximately 35,000 students and 11 faculties (including Business, Law, Arts, Languages, Education and Political Sciences), some of which are located in the nearby cities of Brescia and Piacenza.

www.unicatt.it

The Politecnico, founded in 1863, is a state university with about 39,000 students and only two faculties (Engineering and Architecture). In addition to Milano itself, the Politecnico has campuses in Mantova, Cremona, Piacenza, Lecco, Bovisa and Como. Of special interest to International Studies students are the courses in Industrial Design (product design, communication design, interior design and fashion design) offered at the Bovisa and Como campuses.

www.polimi.it

Libera Università di Lingue e Comunicazione IULM is a relatively small university (712 students in 2000-2001), founded in 1968 as an Institute for Modern Languages, with the main campus in Milano itself and a regional branch in Feltrine (Veneto region). It assumed the status of an autonomous university and its present name in 1998. IULM has two faculties (Foreign Languages and Literatures, and Communication and Entertainment) offering degree courses in translation and interpreting, public relations, sciences and technologies of communication and tourism. It has a modern campus on the city railway line, with facilities which include a Language Centre and a multimedia lecture theatre.

www.iulm.it

Modena

Dating back to the Roman times, Modena (population 180,000) became a free city in the 12th century. Modena was home to Italy’s favourite tenor, the late Luciano Pavarotti and car manufacturers such as Ferrari, who test the Formula 1 cars on the racetrack at nearby Fiorano. Although only 40 km away from Bologna, Modena has a special interest to character of its own. The old city’s fortified walls, now converted to promenades, give it a pentagonal shape. Notable buildings include the cathedral (begun in 1099), the bell tower (completed in 1319) and the imposing ducal palace (begun in 1634), now a military academy. The Palazzo dei Musei houses the municipal collections, including the Este Gallery and Museum, rich in Renaissance paintings, and the Estense Library, noted for its collection of illuminated manuscripts.

www.modena.it

The Palazzo dei Musei houses the municipal collections, including the Este Gallery and Museum, rich in Renaissance paintings, and the Este Library, noted for its collection of illuminated manuscripts.

University degli studi di Modena e Reggio Emilia was founded in the first half of the 12th century, after the death of Countess Matilde of Canossa in 1115. Nowadays it has 15,000 students, nine faculties (Law, Arts, Conservation of Cultural Heritage, Medicine and Surgery, Mathematical, Physical and Natural Sciences, Agriculture, Pharmacy, Economics, Business and Administration, and Engineering) and two campuses (Modena and Reggio Emilia). Of particular interest is the area of cultural studies, offered through the Faculty of Arts, which includes courses in cultural anthropology, comparative social systems, history of philosophy, etc.

www.unimo.it

Trieste

Università degli studi di Trieste (population 238,000) is an important port in the Adriatic, capital of the province of the same name. It preserves interesting Roman, Medieval and neo-classic monuments and it is an important centre for artistic, historical and scientific collections. Once the chief port of the Habsburg empire, Trieste is nowadays an important ‘gateway to the East’, a truly multicultural, vibrant city with a commitment to developing its tertiary and scientific sectors.

University degli studi di Trieste is a medium-sized university with 25,000 students and 12 faculties spread over three campuses in Trieste, Gorizia and Fudenone. The University is very highly regarded in the scientific and diplomatic studies areas. It also hosts the foremost translation and interpreting school in Europe.

www.univ.trieste.it

Completion requirements

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MAJ08924 Japan

Japan is Australia’s single most important trade partner and a major economic power in the Asia-Pacific region. The study of Japan’s economy, culture, history and international relations offers an advantage to students pursuing careers in the international business arena. Students interested in modern Japanese culture may also find much to attract and stimulate them creatively.

Through arrangements made by UTS: International Studies, students spend two consecutive semesters studying at one of the following universities:

- Gifu University, Gifu
- Hokkaido University of Education, Hakodate Campus
- Kagoshima University, Kagoshima
- Kyoto University of Foreign Studies, Kyoto
- Kyushu Institute of Technology, Kitakyushu
- Nishogakusha University, Kashiwa, Chiba
- Obirin University, Machida, Tokyo
- Okinawa University, Naha
- Osaka Prefecture University, Osaka
- Sapporo University, Sapporo
- Tokyo Institute of Technology, O-okayama, Tokyo
- Yamanshi University, Kofu
- Yokohama National University, Yokohama.

The location and content of each student’s period of In-country Study are determined by the student’s level of language competence in Japanese. Students who have near native competency in Japanese prior to undertaking their period of In-country Study are able to attend classes alongside local students in a broad range of subjects. All other students study mostly language and culture subjects, at least in their first semester. Many students take one or two local subjects taught in Japanese as non credit-earning (audit) students.

Students should be aware that the cost of living in Japan is high, but it is possible to do part-time work on a student visa in Japan and some of the Japan In-country Study sites are cheaper than others due to subsidised dormitory accommodation.

Locations

Gifu

The city of Gifu (pop. 410,000) is located north of Nagoya. The cormorant fishing on the Nagara River that flows through Gifu has a history of 1,200 years and attracts many tourists. The major attractions of the mountainous Gifu prefecture lie to the north in the Hida district, which is part of the Japanese Alps famous for their beauty and skiing in winter. The inhabitants of Takayama, the administrative centre of Hida, have long been known for their woodworking skills, and Hida carpenters were in demand to construct imperial palaces and temples in the Kyoto and Nara regions. The tradition continues to this day with the production of furniture and woodcarvings.

Gifu University is a national university founded in 1949. It has five faculties: Agriculture, Education, Engineering, Medicine and Regional Studies. Gifu University has about 6,000 undergraduate and 1,200 postgraduate students. Most UTS students take the Japanese language and culture subjects which are run by the International Students Centre. The Centre offers an intensive Japanese language course that UTS students are encouraged to join, at least for their first semester. The University is on the outskirts of the small city of Gifu so has a relaxed atmosphere, but is only about an hour’s travelling time away from the bustling metropolis of Nagoya. There is a handful of other students from English language backgrounds at Gifu University, but it is still a good environment for learning to live in the Japanese language.

Hokkaido

Hokkaido is the northernmost and second largest of Japan’s four main islands. Hokkaido is a port city with a small population and a relaxed atmosphere.

Hokkaido University of Education, Hakodate, is a national university founded in 1876. Its academic strength lies in the area of education. The University has about 6,000 undergraduate students spread over five campuses, each located in a principal city of Hokkaido: Sapporo, Hakodate, Asahikawa, Kushiro and Iwamizawa. It has five undergraduate programs: Elementary School Teachers, Junior High School Teachers, Kindergarten Teachers, Children with Intellectual Disabilities, and Integrated Arts and Sciences at Hakodate College. The University hosts only a small number of overseas students each
year, the majority of whom are from non-English-speaking countries. Japanese language classes are organised to suit the level of students. In-country Study students live in the university dormitory located a short bike ride from the campus. The University is best suited to students in the Faculties of Education, Humanities and Social Sciences, and Business.

Kagoshima

Known to the Japanese as the Naples of Japan, Kagoshima (pop. 536,000) is the southern-most major city in Kyushu. It is a sunny and relaxed place with a long hot, humid summer and a short winter. Overlooking the city across Kinko Bay is the famous volcano, Mt. Sakurajima. The Kagoshima region, known as Satsuma, was always receptive to outside contact and for many years was an important centre for trade with China. St Francis Xavier first arrived here in 1549, making Kagoshima one of Japan’s earliest contact points with the West. The city's University serves as a focus for cultural life in southern Kyushu, famous for its hotsprings.

Kagoshima University is a national university founded in 1949. It has nine faculties: Agriculture, Dentistry, Education, Engineering, Fisheries, Law and Letters, Medicine, Science, and Allied Medical Sciences. Student numbers are about 10,000 for undergraduate programs and 1,200 for postgraduate programs. The campus is located in the centre of Kagoshima City. Most UTS students study language and culture in the International Students Centre. UTS students are also part of professors' research groups in either the Faculty of Engineering or the Faculty of Education. There is an intensive language course available for students at Kagoshima, but UTS students are not obliged to take it and they may take a lighter class load if they choose. Most of the international students at Kagoshima University are from China, Korea, South America and South Asia, with small numbers of students from every other region in the world as well, including a couple of other English language background students from the USA and Australia.

Kashiwa, Chiba

Nishogakusha University is in Kashiwa City in Chiba prefecture. Kashiwa is located one hour by train from central Tokyo. Kashiwa City has drawn attention as one of the ideal residential suburbs of Tokyo, and has seen rapid growth. The professional soccer team, Kashiwa Reysol, is based locally and residents enjoy cheering the team on.

Nishogakusha University had its beginnings in Kangaku Juku, a private school for the study of Chinese classics founded in 1877. The famous author Natsume Soseki studied there in preparation for university. The University continues to teach Chinese classics as well as other East Asian literature through its Faculty of Literature. The University has a second faculty, the Faculty of International Politics and Economics. In 2004, a second campus at Kudan was opened in Chiyoda-ku, Tokyo. It is quite a small university of about 3,000 students. There are many international students from China and Korea, but UTS students are the only students from an English-speaking background at the University. In-country Study students at Nishogakusha University join an intensive Japanese language program with very small classes, so it is an ideal environment for students really wanting to concentrate on improving their Japanese language skills.

Kakkyushu

Kyuush Institute of Technology (KIT) is located at Kitakyushu-city in the northern part of the island of Kyushu (pop. 1 million). Historically, this area has played a major role as a gateway to the Asian continent. Kitakyushu-city has developed into an important industrial area for southern Japan. Kyushu Institute of Technology is a prestigious national university, so the Japanese students are very studious and interested in science. There is a reasonable-sized international student population, mostly made up of Chinese and Korean full degree students. There are not many short-term exchange students, and most students are the only students from an English-speaking background. This means there is not a large program of Japanese language classes, but the environment is ideal for learning to live in the Japanese language. UTS students are allocated to research groups attached to a professor. Because UTS students are not expected to spend as much time in class as at other In-country Study sites, KIT is an ideal location for students who are self-motivated in their studies and are keen to learn about Japanese society outside the classroom.

Kyoto

Kyoto (pop. 1.4 million) was historically the cultural and political centre of Japan and its capital from 794-1868. Kyoto is rich in historical sites and for that reason it attracts many foreigners. Kyoto is renowned for its fine textiles and traditional products and is also a thriving centre of high-tech industry. Possessing a wealth of historic sites and cultural treasures, and bounded on three sides by mountains, Kyoto is a living museum.

Kyoto University of Foreign Studies (KUFS) is one of the oldest private universities for foreign studies in Japan and is located in the western part of Kyoto. It is small, with about 3,500 undergraduate and 50 postgraduate students learning various languages and cultures. To facilitate their foreign language studies, KUFS has exchange relationships with universities around the world, so there is a large diverse international student population and an active social life in which In-country Study students can participate. Instead of joining a professor’s research group, there is a set program of language and culture study for exchange students. UTS students are obliged to join this course, even though they also have to do In-country Study assignments, so the workload at this university is higher than for other In-country Study sites.

Machida, Tokyo

Obirin University is located in Machida, a city of 400,000 in the south-western suburbs of Tokyo. It is one of Tokyo's residential cities. Machida is approximately 35 minutes from central Tokyo by train, so it is a convenient base from which to explore Tokyo's museums and other recreational facilities.

Obirin is a private university founded in 1946. A Christian Congregation University, it is very internationalised, with over 5,000 undergraduate and about 150 postgraduate students. Obirin hosts non-matriculating international students from English-speaking countries on 10-month 'Reconnaissance Japan' programs. It has four faculties: Economics, International Studies, Literature, and Business and Public Administration. Obirin specialises in English language education and has exchange students from the USA and the UK as well as Australia. Respected historian Professor Bruce Batten is the academic advisor for international students, and Obirin also has a strong record in fine arts and performing arts. The University sometimes hosts artists-in-residence for short periods, which is a great resource for students interested in the arts.

Naha

Naha is the capital of Okinawa prefecture, at the southern end of Japan. The only region which has a sub-tropical climate in Japan, it offers a warmer climate with the average temperature of approximately 23 degrees. Okinawa's distinct culture and island environment means it is a popular tourist destination.

Okinawa University’s basic concept is ‘an open university that is community oriented, learns from the community, and keeps close a relationship with the community’. Okinawa University is a small private university with two faculties: the Faculty of Law and Economics and the Faculty of Humanities. UTS students usually take the intensive Japanese language program for international students. UTS students at Okinawa University from an English language background, although there are many students from China and Korea as well as the local students.

O-okayama, Tokyo

The Tokyo-Yokohama district is the key region in Japan’s leading commercial and industrial area. Tokyo prefecture comprises 23 wards of urban Tokyo, 27 cities and four islands with over 11 million people. Tokyo is such a huge, sprawling city that one could spend a lifetime exploring it and still make new discoveries every day. O-okayama is in central Tokyo, so UTS students at this site can experience the full Tokyo lifestyle, crowded trains and all.

Tokyo Institute of Technology (Tokyo Tech) is perhaps the most prestigious technology-oriented university in Japan. The Japanese student population tends to be very studious, and there is a large and varied international student population. Tokyo Tech receives UTS In-country Study students from their post-graduate students, who in Japan have to write a small thesis, therefore placing them into research groups under professors. Most In-country Study students will study only language and culture subjects, but in order to join a research group of people with similar interests, it is important for students to choose their professor carefully. There are many research groups working in engineering, science and information technology. There is also a well known sociologist, Professor Daisaburo Hashizume, who can take In-country Study students from Humanities and Social Sciences or Business. Design students may find a professor in the Architecture Department.

Osaka

Sakai City (pop. 800,000) is in Osaka prefecture. The University is in the south of Osaka. Osaka is Japan’s third biggest city, the business centre of southern Japan. Sakai’s history is traced well back to the 4th century and there are many historical and cultural sites, such as Emperor Nintoku’s Mausoleum.
Osaka Prefecture University is a public prefectural university founded in 1949. It has five faculties: Engineering, Agriculture, Economics, Integrated Arts and Sciences, and Social Welfare. UTS currently has exchange agreements with the Faculty of Engineering. The University has about 5,000 undergraduate and 1,200 postgraduate students. There is not a large program for international students, so this site is only suitable for UTS students with a very high level of Japanese language competency.

Sapporo
Sapporo boasts of dynamic cultural institutions and annually hosts events, among them the Pacific Music Festival (PMF). The PMF adds to Sapporo's legacy of prominent activities that includes the 1972 Winter Olympic Games, Asian Games, Winter Universiade and Sapporo Snow Festival.

Sapporo University is a private university founded in 1967 with a humanities and business focus. It has about 6,000 undergraduate and 60 international students. There is a great variety of extracurricular activities with over 60 cultural and sporting clubs. The University is located in Nishioka, the southern part of Sapporo. It is situated in a quiet residential area about 30 minutes from the centre of Sapporo and is not far from Hitsujiyagaoka observation spot, one of Sapporo's main attractions. The Japanese language classes are organised to suit the level of the UTS students. Sapporo University is suitable for students in the humanities, education and business.

Yamanashi
Yamanashi prefecture, located in the Chubu region of Japan, is an inland prefecture rimmed by steep mountains on all sides. Surrounded by scenic beauty to the south, Mt Fuji rises 3,776 metres above sea level. Being only 120 km from the Tokyo area, the prefecture has been able to prosper culturally for many years. Yamanashi has much allure, with abundant greenery, crystal clear air and water, some of the freshest fruit and best national parks, including the Fuji Hakone Izu National Park. Kofu City, with about 200,000 inhabitants, can be reached within an hour-and-a-half from Tokyo by express train. Yamanashi University is a national university founded in 1949. It is a small public university with just three faculties, Medicine, Education and Human Sciences and Engineering, and about 3,500 undergraduate and 500 postgraduate students. The University has around 150 international students, the majority of whom are from China or Korea. The University is located within walking distance of Kofu Railway Station. There is a small dormitory specifically for overseas students close to the University. UTS students attend language and culture classes run by the International Students Centre. Yamanashi University is a suitable site for students from nursing, engineering, education and business.

Yokohama
The Tokyo-Yokohama district is the key region in Japan's leading commercial and industrial area. Yokohama (pop. 3 million) was little more than mudflats 150 years ago, but with the end of Japan's long isolation from much of the rest of the world, the city was the closest port to Tokyo open to foreign traders. Yokohama's attractions can be summed up in the harbour and a lively Chinatown. Yokohama Bay Bridge has a walkway on the bridge, Sky Walk, that leads to a viewing area out over the bay. The high-tech industries and research laboratories that back up the Tokyo area are gathered in Yokohama district.

Yokohama National University (YNU), established in 1949 as a national university, has four faculties and two graduate schools with a combined student population of about 10,000. YNU has a large, diverse international student population and a well established system for managing them. In-country students do not go into professors' research groups but into the JOY Program, with language classes, humanities and social science classes, and business classes specifically tailored for short-term exchange students. Students with a high level of Japanese may also take classes with Japanese students outside the JOY Program, for example, in YNU's excellent Architecture Department.

**Completion requirements**

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**Locations**

**Mexico City, Mexico**

The Universidad Nacional Autónoma de México (UNAM) was founded in 1910 and has approximately 275,000 students. It is public, secular and pluralist. It is Mexico's premiere university and is ranked the No. 1 university in the Spanish-speaking world. It was created in the wake of the Mexican Revolution as the jewel in its crown and was intended to extend higher education to a greater proportion of Mexicans. It currently houses 70 percent of all research academics in the country. Its main campus is located in the south of the city in Ciudad Universitaria (University City), which was declared a UNESCO World Heritage Site in 2007. It boasts murals by some of Mexico's most famous artists. There are undergraduate and postgraduate degree courses in the faculties of Architecture, Economics, Law, Engineering, Philosophy and Letters, Accounting and Administration, Science, Political and Social Sciences, Medicine, Odontology, Psychology, Chemistry, Veterinary Science, Zoology, as well as schools of art, music, nursing and obstetrics, music, and social work. The university has a lively cultural and sporting life including its own national football team. The Centro de Estudios para Extranjeros (CEPE — Centre for Foreign Students) provides professional Spanish language and culture support classes for visiting students. www.unam.mx

**Xalapa, Veracruz**

Xalapa (population 400,000) is a small city which has conserved much of the charm and character of provincial Mexico. It is nestled in green misty hills and has many squares and gardens. The city and surrounding pueblos remain unspoiled by tourism yet are fascinating places to visit for anyone interested in archaeology, Mexican history, the arts and indigenous cultures. Xalapa is also within easy reach of Mexico City by a good road. Xalapa is the administrative capital of the state of Veracruz, and most industry and commerce is located 130km east around the historic port of Veracruz. Between Veracruz and Xalapa lie sub-tropical lowlands where fruits, herbs, chilies and flowers are grown. Coffee is the main crop in the hills. All these local products are sold in Xalapa's traditional marketplaces. Xalapa is known for its exceptionally active and varied cultural life. The Universidad Veracruzana was founded in 1944 and has approximately 60,000 students. There are over 30 undergraduate degree courses in the faculties of Medicine, Business and Economics, Art, Humanities, Veterinary and Agricultural Science, and Engineering. The anthropology and history faculties specialise in the study of provincial history and indigenous languages. Several faculties are dispersed around the city. The main campus is located below the city centre in pleasant parkland with lakes and an historic sports stadium built in the Grecian style in the 1920s. The university's school for foreign students (EEF) provides educational programs exclusively for foreign students.

This site is available to exchange students providing they have university-level Spanish. www.unam.mx
Guadalajara, Jalisco

Guadalajara, Mexico’s pearl of the west, is incredibly diverse and steadily with amazing qualities, both modern and historic, that embrace all who visit. It is considered the most Mexican of Mexico’s big cities. As the second largest city in Mexico, Guadalajara is a busy metropolis and a major Mexican business centre. Although this city moves at a busy pace, things here have a way of seeming to always remain serene. Guadalajara is a city of monuments, parks and flowers, fountains and tree-lined avenues which history dates from the 16th century. The Guadalajara area is known as the birthplace of the world famous Mariachi bands, the home of the Mexican hat dance and tequila. Guadalajara's month-long October festival attracts visitors from all over the world and performers from all over Mexico for a wide variety of music, cultural and artistic events and crafts exhibits. Presently, students can choose to study at the Universidad de Guadalajara (UdeG) (providing they have a minimum of Level 6 Spanish) or the Guadalajara campus of the Tec de Monterrey. Subjects offered to UTS students at the Universidad de Guadalajara are within the Centre for Humanities and Social Sciences (Centro Universitario de Ciencias Sociales y Humanidades (CUCHS))

www.cuchs.udg.mx

CUCHS is sub-divided into Cultural Studies, Studies in State and Society, Political and Social Studies, History and Humanities, and Juridical Studies. Students can take classes in law, literature, philosophy, psychology, sociology, geography, journalism, etc. Students who wish to do in-country study at the Universidad de Guadalajara must have Level 6 Spanish competence. This site is available to UTS exchange students in general providing they have university-level Spanish.

www.udg.mx

At the Tec de Monterrey campus in Guadalajara, students have access to the same range of subjects as other Tec students, including engineering, architecture and design, communication studies, literature and music.

This site is also available to UTS exchange students in general who have university-level Spanish. There are, however, a limited number of subjects available in English (culture and business).

www.gda.itesm.mx

Monterrey, Nuevo León

Called the City of the Mountains, Monterrey is the capital of the state of Nuevo León, which is situated in the north-east corner of the country and borders on Texas. Monterrey rests in a valley surrounded by the jagged Sierra Madre mountain range. The downtown area features magnificent plazas and gardens. Even with its large population of five million, Monterrey is one of the safest cities in Mexico. Monterrey’s population is considered the most educated in Mexico and the city on a per capita basis has more colleges, universities and institutes of technology than any other Mexican city. Quality restaurants, modern shopping malls, numerous museums and cultural attractions abound here. Some of Mexico’s best hiking, mountain bicycling, cave exploring and nature areas are located within close proximity to the city.

Founded in 1947, El Instituto Tecnológico y de Estudios Superiores de Monterrey (ITSEM), commonly known as ‘El Tec’, is regarded as Mexico’s most modern and technologically advanced university. Regular classes may be attended in the following study areas: agriculture, behavioral science, engineering, communications, computer science, economics, humanities, law, international business, and natural resources.

This site is available to UTS exchange students in general and has a wide range of subjects in English.

www.mty.itesm.mx

Cholula, Puebla

The university is located in the municipality of San Andrés Cholula, five minutes from the city of Puebla and 120 kilometers from Mexico City. Puebla is 2100 meters above sea level and is the state capital. It was founded in 1531 by Don Juan Salmeron and Fray Toribio de Benavente, better known as Motolinia. Puebla is renowned for its distinctive colonial architecture, savoury cuisine, Talavera ceramics, onyx crafts and textile industry. The indigenous language of the region, Nahua, is still spoken in some rural areas of the Puebla Valley. Mexican troops defeated French invaders here on 5 May 1862 giving birth to the modern-day ‘Cinco de Mayo’ celebrations. Puebla is one of Mexico’s richest cities in terms of colonial art and has been recognised by UNESCO as a World Heritage Site. Cholula, the oldest city on the continent, has an excellent archaeological site that was an important religious center of diverse cultures during pre-Hispanic times. The most common landmark is the massive Pyramid of Tepanapa, on top of which the Spaniards built a Catholic Church.

The Universidad de las Américas (UDLA) is one of Mexico’s finest with a campus laid out like a small town and a student population of 8500, making it a favourite of foreign students. The UDLA was originally founded in Mexico City in 1940 under the name of Mexico City College before moving to Puebla in 1968 and taking the name of Universidad de las Américas. Students who go to UDLA go under a UDLA-UTS exchange program and can take a range of subjects, from engineering and business administration to humanities and social sciences, including archeology, literature, communication, film and dance. Through the Centro de Lengua y Cultura, students can also apply to do summer internships (fees apply) or community service in local non-profit organisations. Spanish language and culture classes are also provided by UDLA for foreign students.

This site is available to UTS exchange students in general and has a wide range of subjects in English.

www.udlap.mx

Completion requirements

10.60 Foundations in International Studies
10.65 Contemporary Latin(o) Americas
10.75 In-country Study 1: Mexico
10.85 In-country Study 2: Mexico
CBK00484 Spanish Language and Culture

Total 96cp

MAJ08927 Spain

Spain occupies the south-western tip of Europe, along with Portugal. This location has made Spain an important historical, religious, cultural and linguistic contact zone where Europe and Africa have met and coexisted, often uneasily. The centre of a vast international empire from 1492 to 1898, in the 20th century Spain, was ruled by General Franco in one of Europe’s longest-running fascist dictatorships (1937-1975). Since 1975 and the restitution of a parliament-based constitutional monarchy, one that also permits significant regional autonomy, the Spanish people have enjoyed high standards of living and a climate of cultural liberalisation. Since the 1970s Spain has also been a key player in drives towards European union, and since the early 1990s has become an important receiver country of immigrants from Africa, Asia and Latin America, with Ecuadorians and Moroccans forming the two largest minorities. With a population of 45 million, Spain is one of the world’s top tourist destinations, attracting more than 45 million visitors annually. While Castellano (Spanish; Castilian) is the official state language, other resilient regional languages (Basque, Catalan, Galician) reflect contemporary Spain’s profound cultural heterogeneity. Students in the Spain major have the opportunity to learn Castilian, to learn about Spain and Spain’s place in European and international affairs, and to spend an academic year of study at universities in Barcelona, Granada, Logroño, Madrid, Málaga, Pamplona, Salamanca and Santander. The UTS Language and Culture program accepts students with varying degrees of language ability, ranging from complete beginners to native speakers.

Students spend two consecutive semesters studying language and culture at one of the following universities through arrangements made by UTS: International Studies:

- Universitat Autònoma de Barcelona, Barcelona
- Universitat Abat Oliba, Barcelona
- Universidad de La Rioja, Logroño
- Universidad Antonio de Nebrija, Madrid
- Universidad Alfonso X El Sabio, Villanueva de la Cañada (Madrid area)
- Universidad de Granada, Granada
- Universidad de Málaga, Málaga
- Universidad de Sevilla, Sevilla
- Universidad de Navarra, Pamplona
- Universidad Pública de Navarra, Pamplona
- Universidad de Salamanca, Salamanca
- Universidad de Cantabria, Santander.

Students are assessed separately each semester, based on subjects undertaken at the host institutions, as well as project work administered by UTS: International Studies.

Students may expect that slightly greater costs will be incurred through undertaking a period of in-country study in Spain than are involved in living away from home in Sydney and that these costs vary from location to location and fluctuate with exchange rates.
Locations

Barcelona

Barcelona, the second largest city in Spain, and the capital of the Autonomous Community of Catalonia, has long been a centre for artistic and architectural developments, as well as social progressiveness. It is also one of the most industrialised of Spanish cities.

Students who select Barcelona for their period of in-country study spend two consecutive semesters studying language and culture at one of two universities in the city with which UTS has exchange agreements: the Universitat Autònoma de Barcelona (UAB) or Universitat Abat Oliba.

In their first semester, UTS students at the Universitat Autònoma de Barcelona (UAB) study Spanish language as well as enrol in one elective subject. During the second semester, students select three electives from a list of options on contemporary Catalan and Spanish history, culture, politics, economics and society. The UAB campus consists of teaching and research centres, libraries and laboratories. Located 40 minutes from central Barcelona by commuter train, the UAB is, in effect, a separate university town. The university community is made up of 37,000 undergraduate students, 6500 postgraduate students, 2700 teachers and researchers, and 1200 administrative staff. The UAB’s 11 faculties offer a wide range of study and research, including the humanities and social sciences, law, business studies, health sciences, experimental sciences, art and design, technology, and engineering. Catalan is the primary language of instruction at UAB, although a limited number of subjects are offered in Castilian.

This site is available to exchange students provided they have university-level Spanish and are prepared to undertake classes and subjects taught in Catalan, and depending on student demand in a given year.

www.uab.es

Universitat Abat Oliba is available only to in-country study students or exchange students with level 8 or higher Spanish proficiency who enrol in regular university subjects from Semester 1. In both semesters, students select three electives from a list of options on contemporary Catalan and Spanish history, culture, politics, economics and society. The Universitat Abat Oliba is a small private university located in the suburb of Bellesguard and is easily accessible by public transport. Abat Oliba’s degree programs are professionally based in ways that match many of UTS's professional degrees, and the university prides itself on being technologically and pedagogically innovative, with small class sizes and a commitment to high teaching standards. Castilian (Spanish) is the primary language of instruction, with some subjects offered in Catalan. Abat Oliba offers students a range of subjects in the areas of business administration, political science, law, economics, journalism, psychology, advertising and PR, and information technology.

This site is available to exchange students provided they have university-level Spanish and are prepared to undertake classes and subjects taught in Catalan; such students may enrol in an advanced Spanish language class as an elective, subject to their faculty’s approval.

www.ualo.es

Granada

Granada is a medium-sized city in Andalucía, home of La Alhambra and Sacromonte, and one of the most picturesque and visited tourist locations in Spain. Although it has a constant and significant influx of tourists from all over the world, the city does not have a large foreign community living there long-term.

In their first semester, UTS students at the Universidad de Granada study Spanish language as well as enrol in one elective subject. During the second semester, students select three electives from a list of options on contemporary Spanish history, culture, politics, economics and society.

The University of Granada is the third largest university in Spain, and, having been founded in 1531, it is also one of the oldest. It enrols over 80,000 students annually and is an important and prominent institution in this city of only 270,000 inhabitants. The university teaches in all the main areas of study. Its faculties include Fine Arts, Architecture, Information Studies, Science, Physical Education and Sport, Education, Human Resources, Economics and Management, Psychology, Sociology and Political Sciences, Humanities, Translation and Interpretation, Law, Pharmacy, Medicine, Engineering and Information Technology, and various associated centres offering nursing, dentistry and others. The campus has modern facilities including IT access, a large library system and sport facilities. It is centrally located and the city has a good public transport system.

Granada has a thriving cultural life. There is a mountain range half an hour away with excellent skiing in the winter, and the beach is only one hour away. Granada is also well connected to other major cities and tourist areas in Andalucía and has direct flights to Madrid and Barcelona.

This site is available to exchange students provided they have university-level Spanish, and depending on student demand in a given year.

www.ugr.es

Logroño

Logroño is the capital of the Autonomous Community of La Rioja, the most important wine-producing region of Spain. La Rioja is the smallest autonomous community in Spain, bordered by Navarra, Castilla y León, and Aragón. The city has a population of about 150,000, and is surrounded by picturesque valleys and mountains. It was founded by the Romans and forms part of the famous Camino de Santiago, alongside many monasteries and castles that can be found in the area.

The University of La Rioja attained university status in 1992, having been part of the University of Zaragoza previously. The student population currently numbers some 7500. The university offers 26 undergraduate and postgraduate degrees in a number of disciplines. Most foreign students who attend this university come from non-English-speaking backgrounds.

Students who select Logroño for their period of in-country study spend two consecutive semesters studying language and culture at the Universidad de La Rioja through arrangements made by UTS: International Studies. In the first semester, students further their Spanish language skills, and, if their Spanish levels permit, have access to other subjects as determined by the university. During the second semester, students select a number of electives from a list of options on contemporary Spanish history, culture, politics, economics and society.

This site is available to exchange students provided they have university-level Spanish; such students may enrol in an advanced Spanish language class as an elective, subject to their faculty’s approval.

www.unirioja.es

Madrid

Madrid is the capital of Spain and the country’s largest city, with a population of some five million, including the city’s outlying districts.

Madrid is situated in the geographical centre of the country and is regarded by the Spanish state as an autonomous community in its own right. It also wins the prize for being the highest European capital in terms of altitude, being some 700 metres above sea level. Home to some of Europe’s most important art galleries and museums, including the Prado, Madrid is a dynamic metropolis, with a cultural life on par with the other great European capitals. It also boasts a vibrant night-life and an excellent public transport system. Two universities are available for students wishing to study in Madrid. University Alfonso X El Sabio (UAX), Villanueva de la Cañada (Madrid area), is a private university on the outskirts of Madrid. It is located in Villanueva de la Cañada, 25km out of Madrid. The campus can be reached in 45 minutes by a bus departing every 15 minutes from a bus and metro interchange in central Madrid. Student accommodation is available in the small town/suburb next to campus, which provides an alternative to commuting from Madrid. The university can arrange for shared accommodation with Spanish and other foreign students in Villanueva de la Cañada. Most foreign students studying at this university are from non-English-speaking countries, and many are from Latin America. The university offers
Málaga

Málaga is a thriving city on Spain's south Mediterranean coast and a popular international tourist destination. The city is close to some of the most historically and architecturally significant cities in the Autonomous Community of Andalusia, such as Granada and Córdoba, and the Moroccan African coast is only a short ferry ride away.

In their first semester UTS students at the Universidad de Málaga undertake Spanish language classes, and in second semester three elective subjects from the regular curriculum of the university.

Founded in 1972, the Universidad de Málaga has become one of Spain's most dynamic tertiary institutions, especially in the fields of technology, tourism and Andalusian Studies. The university has eight faculties and 11 schools, and caters for a wide range of studies and research in the humanities and social sciences, health sciences, experimental sciences, technology, business, law, engineering and tourism. The university is split into two campuses and has modern resources, including excellent libraries, an Olympic-quality sports centre and a range of student services. Spanish language classes are offered at a language centre in the city while Teatinos campus, where students study in second semester, is 15 minutes from central Málaga by bus.

This site is available to exchange students provided they have university-level Spanish; such students may enrol in an advanced Spanish language class as an elective, subject to their faculty’s approval.

www.uma.es

Sevilla

The University of Sevilla was founded in 1502 and is still housed in the iconic Tobacco Factory building dating from the 18th century made famous by Bizet’s opera Carmen. The current campus is spread all over the city, with some faculties located in the post-Expo area of Cartuja Island, still a short walk from the city’s centre.

It is a large public university catering to about 60,000 students with over 4000 teaching staff, making it one of the largest universities in Spain.

Its faculties include Biology, Physics, Chemistry, Pharmacy, Medicine, Dentistry, Psychology, Mathematics, Economics and Business, Social Work, Education, Communications, Geography and History, Philosophy, Philosophy of Law, Fine Arts. There are also technical sciences, schools of Architecture, Engineering, Software Engineering and university schools of Technical Architecture, Agricultural Sciences, Management Studies, Health Sciences, Engineering.

The university offers modern facilities and an optional Spanish language class for foreign students to be taken each semester concurrently with regular university subjects on contemporary Spanish history, culture, politics, economics and society.

This site is available to exchange students provided they have university-level Spanish; such students may enrol in an advanced Spanish language class as an elective, subject to their faculty’s approval.

www.us.es

Pamplona

Pamplona, or Iruña as it is known in Basque, is the capital of the Autonomous Community of Navarra, in the north of Spain. Navarra is one of the wealthiest regions in Spain, and while Castilian is the dominant language, Basque is also spoken by a significant proportion of the population. Pamplona is famous for its Fiesta de San Fermín and the associated running of the bulls.

In their first semester, UTS students at the Universidad de Navarra undertake intensive Spanish language and culture classes. In their second semester, students enrol in classes from the general undergraduate program in a range of faculties, depending on university admission requirements. The Universidad de Navarra is located on the outskirts of Pamplona in a leafy and spacious parkland setting along the banks of the Sadar River, some 20 minutes from the city centre by bus. One of the best technologically equipped tertiary institutions in Spain, the university prides itself on its commitment to fostering an active student body committed to cultural and sporting activities. Of the 13,500 students in its undergraduate programs, between 600 and 700 come from overseas, half of those from Latin America. The university was founded in 1952 and currently offers 27 degree courses in a range of faculties and schools, some of its strengths being business studies, journalism, nursing, law and education.

This site is available to exchange students provided they have university-level Spanish and depending on student demand in a given year.

www.unaves.es

Salamanca

Salamanca is a small university town some two-and-a-half hours by road from Madrid, in the Autonomous Community of Castilla y León. The old city centre, where the university itself is located, contains some of the finest examples of medieval, renaissance and baroque architecture in Spain.

In their first semester, students undertake Spanish language and culture classes from the Cursos Internacionales program. In their second semester they enrol in classes from the general undergraduate program in a range of faculties, depending on university admission requirements.

Established in 1218, the Universidad de Salamanca is one of the oldest universities in Europe, and currently attracts thousands of foreign students each year. Undergraduate students number close to 40,000. Located in the historical centre of Salamanca, the university has an illustrious academic history. Among its graduates and teachers are many of Spain’s most important jurists, scientists, doctors, philosophers and writers. Classes are held in buildings built centuries ago. In 1987 construction of a new campus, Miguel de Unamuno, on the edge of the city centre was undertaken to satisfy the growing needs of students and staff. The university has 16 faculties and seven university schools, and offers study and research in many areas, notably humanities, environmental science, social sciences, law, economics and pharmacology. Its humanities faculty is well regarded internationally for its courses in linguistics, languages and translation.

This site is not available to UTS exchange students.

www.usal.es

Santander

Santander, the largest city in the Autonomous Community of Cantabria, is a medium-sized city of 200,000 inhabitants, located on the northern coast of Spain and home to the best surfing beaches in the country. The campus is centrally located, surrounded by modern residential areas popular with students, and easily accessible by public transport from other parts of the city.

Students who select Santander for their period of in-country study spend two consecutive semesters studying language and culture at la Universidad de Cantabria (UC) through arrangements made by UTS: International Studies. In the first semester students further their Spanish language skills and, if their Spanish levels permit, they have access to other subjects as determined by the university. During the second semester students select a number of electives from a list of

www.usc.es
options on contemporary Spanish history, culture, politics, economics and society. UC is a modern university currently enrolling around 13,000 students. It has a modern campus with all necessary facilities. Student flats are close to the campus and there is good public transport to other areas of the city. This site is available to exchange students provided they have university-level Spanish, and depending on student demand in a given year.

www.unican.es

Completion requirements

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<tr>
<th>Code</th>
<th>Course</th>
<th>ECTS</th>
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<td>976451</td>
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<td>977450</td>
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<tr>
<td>978450</td>
<td>In-country Study 2: Spain</td>
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<tr>
<td>CKB90484</td>
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<td>32cp</td>
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MAJ08932 Switzerland

Known for fine chocolates, great skiing and cuckoo clocks, Switzerland has a reputation for the luxurious and the unusual. Beyond these stereotypes, the country has a long history of nominal neutrality, yet remains a major player in banking, politics, diplomacy and other areas of global cooperation, hosting the International Red Cross, among other organisations. Major cities include Geneva, Zurich, Basel and Bern. Culturally diverse, the country is organised on a federal system (cantons) with a unique form of participatory democracy involving frequent referenda, and it combines ethnic and linguistic groups who identify as French, German, Italian and Romansh speaking. Students spend two consecutive semesters studying at one of the following universities in Switzerland:

- Université de Lausanne
- Universitat Berne
- Universität Zürich
- University of Fribourg
- Université de Neuchâtel.

The location and content of each student’s period of in-country study in Switzerland is determined by the level of their language competence in French, German or Italian. Generally speaking, students who have a sound working knowledge of French, German or Italian before their entrance to UTS (usually defined as HSC 3-unit or a good pass in 2-unit French, German or Italian) can study an appropriate two-semester program of host university subjects broadly relating to language, society and culture. Alternatively, provision exists for such students to increase their language proficiency in one of the other languages before completing in-country study as a dual language option. Consult the Switzerland major coordinator if you would like to pursue this as an option.

All other students spend a first semester engaged in the study of language and culture going on to a second semester of subjects chosen more broadly from the university’s curriculum.

Students are assessed on each semester separately. Assessment is based on the subjects studied at the host university, as well as project work administered by UTS: International Studies.

Students should be aware that costs of living in Switzerland are generally higher than in Australia, with eating out particularly expensive. However, it is possible to spend a year there on an amount roughly comparable to living away from home in Sydney. Students studying in Lausanne may currently apply for a University accommodation grant.

Locations

Lausanne

Lausanne, in French-speaking Switzerland, is in a stunningly beautiful location, built on a series of steep hills with views of Lake Geneva and the snow-capped mountains of the Alps in the distance. The built environment is not as charming as the natural one, but there are still pockets of medieval buildings, lovely 17th century monuments such as the town hall, and wonderful ornate hotels and blocks of apartments with florid wrought iron decoration from the late 19th century. The Université de Lausanne (UNIL) has around 10,000 students and seven schools (Law, Arts, Social and Political Sciences (including Sports Sciences), Business, Science, Medicine and Religious Studies) mainly located at Dorigny on the banks of Lake Geneva, a 10-minute metro ride from the city centre.

Bern

Bern is the capital city of Switzerland, founded by the House of Zähringen in the 11th century. After the town was destroyed by a fire in the 13th century, all the buildings were rebuilt in sandstone, and have never since been destroyed by war. The ‘Alstadt’ now has World Heritage listing with UNO. Bern is small, full of teddy-bears in all sizes and shapes, offers multicultural cuisines and prides itself on being the bridge between the German and French speaking parts of Switzerland.

The University of Bern was founded in 1834 and has a generalist, traditional profile. Its seven faculties include Theology, Humanities, Social Sciences, Law, Economics, Medicine (including Veterinary Medicine) and Natural Sciences. The university is located in the city’s traditional student quarter, ‘Langgasse’ and is very close to the main railway station. A direct tramline connects the railway station and Uni Tobler, the main complex for Humanities and Social Sciences.

Zurich

Zurich, in German-speaking Switzerland, is the largest city and the banking capital of Switzerland, with an international atmosphere and a vibrant cultural life. Never touched by war, the city is a beautiful mixture of medieval, classical and contemporary architecture. The Lake of Zurich and the green hills around the city and the nearby Alps give Zurich its particular charm and a relaxed atmosphere.

The University of Zurich was founded in 1833, the first university in Europe founded by a state without ecclesiastical or royal patronage. Its seven faculties are: Theology; Arts (including Social Sciences); Sciences; Law; Economics, Business Administration and Information Technology; Medicine; Veterinary Medicine. With around 2000 academic staff and over 20,000 students, the University of Zurich is the largest institution of higher education in Switzerland, offering the widest range of courses. It also has the highest percentage of foreign students from other than the EU states. Its prominent researchers include a number of Nobel Prize laureates and leading scientists and scholars in all fields.

Fribourg/Fribourg

Fribourg is located on the river Sarine, at the base of spectacularly steep cliffs that were formed by the passage of glaciers long ago. Founded in 1157 by the Duke of Zähringen, the old part of town, with its Gothic cathedral, narrow streets, wooden and stone bridges, museums, cafés and picturesque places, constitutes one of the most beautiful, and best-preserved, medieval cities in Europe. The numerous students that live in the town contribute to the vibrant rhythm of life in Fribourg and are an integral part of its unique atmosphere.

The university developed from the initial Academy of Law established in 1763. The current buildings are located around the city of Fribourg (a ‘city’ university rather than a ‘campus’ university).

Fribourg/Fribourg is located on the border of the French and German speaking Switzerland. The university is therefore Switzerland’s only bilingual university where classes in all faculties take place in either French or German. The university is also part of the ‘BeNeFri’ Network (linking the universities of Bern, Neuchâtel and Fribourg allowing students to study at all three campuses in the nearby cities).

The university currently teaches approximately 10,000 students: 82 per cent are Swiss nationals and 18 per cent international students. Semester dates are mid-February to early June for Summer semester and mid-September to end December for Winter semester.

www.unifr.ch

Neuchâtel

Neuchâtel is located in the French-speaking part of Switzerland on the north-western shore of the Lake of Neuchâtel. The city is located between the Jura mountains and the Alps and surrounded by countryside and vineyards. It is also located in the heart of the Swiss watchmaking region.

The Academy of Neuchâtel was founded in 1838 and the full university was established in 1909. Approximately 4000 students attend the university. Eighty per cent are Swiss nationals and 20 per cent are international students. The university is a public university and is also part of the ‘BeNeFri’ Network (linking the universities of Bern, Neuchâtel and Fribourg, allowing students to study at all three campuses in the nearby cities). The university has five faculties: Humanities; Science; Law; Economics and Technology and research strengths include: biology, anthropology and health law, as well as the Economic Research Institute (IRENE) and the Center for the Understanding of Social Processes (MAPS).

Semester dates are mid-February to early June for Summer semester and mid-September to end December for Winter semester.

www.unine.ch
Completion requirements

976001 Foundations in International Studies 8cp
976406 Contemporary Switzerland 8cp
977460 In-country Study 1: Switzerland 24cp
978460 In-country Study 2: Switzerland 24cp
CBK90417 Switzerland Language and Culture 32cp
Total 96cp

MAJ08933 Canada

The French language, traditionally the language of diplomacy, is shared by many other countries throughout the world, and the Francophone element of this major reflects this by including partner universities in Québec. A participant in the G8 group, Canada claims a place on the world stage in terms of economics, business, politics and culture. Geographically huge, the country extends from the Atlantic to the Pacific, and combines the extremes of snowy winters and hot summers. The history of Canada can be traced back to its indigenous peoples through colonisation by France and the United Kingdom, to independence. More recently, calls for autonomy have been made from Québec, culturally distinct, and with a reputation for artistic, cinematic and literary production second only to France in the Francophone world.

Students spend two consecutive semesters studying at Université Laval, Quebec City.

The location and content of each student's period of In-country Study in Canada (Québec) is determined by the level of their language competence in French. Generally speaking, students who have a sound working knowledge of French before their entrance to UTS (usually defined as HSC 3-unit or a good pass in 2-unit French) can study an appropriate two-semester program of host university subjects broadly relating to Francophone language, society and culture. All other students spend a first semester engaged in the study of language and culture, going on to a second semester of subjects chosen more broadly from the university’s curriculum.

Students are assessed on each semester separately. Assessment is based on the subjects studied at the host university, as well as assessments administered by UTS: International Studies.

Students should be aware that costs of living in Canada are generally slightly higher than in Australia, though the cost of student accommodation is reasonable and it is possible to spend a year on an amount roughly comparable to living away from home in Sydney.

Location

Québec City

Described as the cradle of French civilisation in North America, Québec City is the capital of the province. Dating back to 1608, when the city began as a fur-trading post, Québec’s architecture reflects its position as a crossroads between Europe and America, existing at a unique place among UNESCO’s world heritage sites. With a culture combining French, British, North American and indigenous traditions, the city has a population of over half a million. The natural environment is equally magnificent: with the St Lawrence river at its heart, the province is characterised by forests, lakes and mountains and enjoys contrasting climates of hot summers, snowy winters (ideal for skiing, snowboarding, skating and other activities, as well as providing a Christmas card cityscape) and spectacular Autumns.

Université Laval, founded in 1852, is the oldest French language university in America. Its student population of almost 35,000 enjoys a rich calendar of extra-curricular activities. Facilities include Science and Engineering, Health Sciences, Arts, and Social Sciences and Management, and students can choose from a wide range of options relating to French and Québécois culture and society.

Completion requirements

976001 Foundations in International Studies 8cp
976602 Contemporary Canada (Québec) 8cp
977543 In-country Study 1: Canada 24cp
978543 In-country Study 2: Canada 24cp
CBK90483 French Language and Culture 32cp
Total 96cp

MAJ08934 Accounting and Finance

The Accounting and Finance major provides a comprehensive range of skills that are necessary for those involved in the preparation and/or analysis of financial reports or those working in the finance sector. This includes acquiring knowledge relating to the regulation of financial reporting, the use of financial statements and issues related to the financial management of a firm.

Completion requirements

22754 Corporate Accounting 6cp
22730 Auditing and Assurance Services 6cp
25765 Corporate Finance 6cp
25741 Capital Markets 6cp
25721 Investment Management 6cp
25731 International Finance 6cp
22748 Financial Reporting and Analysis 6cp
22743 Business Valuation and Financial Analysis 6cp
Total 48cp

MAJ08938 Technology Management

In a world where innovation is a key to success, leaders are called to the fore to manage people and projects. The Technology Management major is designed for students who have a technical background or a keen interest in technology and therefore a strong alignment with analytical approaches. From this platform the objectives are underpinned by the desire to expose students to a broader body of knowledge and range of approaches than experienced in a purely technical framework.

A key issue is the benefit that accrues from supplementing analytical and mathematical modelling approaches with business and social science skills. Much of the value and strength of the Technology Management major relate to consideration of approaches and perceptions that are extensions of, or build upon, an engineering/scientific view point. The differences between technocratic approaches and human and societal constructs are brought into sharp focus bringing the perspectives of students.

The major is specifically designed to enhance understanding of the need for technology, people and society to be viewed as closely interrelated aspects of all engineering and business activity.

Completion requirements

Select 48 credit points from the following options: 48cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49006 Risk Management in Engineering 6cp
49013 Managing Information Technology in Engineering 6cp
49655 Integrated Logistic Support 6cp
49309 Quality Planning and Analysis 6cp
49016 Technology and Innovation Management 6cp
49306 Quality and Operations Management Systems 6cp
Total 48cp

MAJ08940 Finance

Virtually all individuals and organisations earn or raise money and spend or invest money. Financial Management is concerned with the process, markets and instruments used in the transfer of money between individuals, firms and government.

The Financial Management major provides participating students with the opportunity to acquire knowledge of finance theory and techniques in the areas of investment and financing decisions, forecasting and planning, risk management and interactions with capital markets. Learning strategies that cover both contemporary financial theory and leading-edge techniques in the practice of financial decision-making are used in the presentation of the major.

Completion requirements

25705 Financial Modelling and Forecasting 6cp
25741 Capital Markets 6cp
25721 Investment Management 6cp
25743 Corporate Financial Analysis 6cp
25765 Corporate Finance 6cp
25731 International Finance 6cp
Select 12 credit points from the following options: 12cp
25807 Mergers and Acquisitions 3cp
25764 Venture Capital Finance 3cp
25812 Fundraising in International Markets 3cp
25732 Venture Capital and Private Equity: Theory and Practice 6cp
25762 Synthetic Financial Products 6cp
25824 Project Financing 3cp
Total 48cp

619
**MAJ08941 International Business**

The International Business major provides participants with competencies in the form of practical skills and theoretical foundations to assess the forces of globalisation and to analyse how these impact upon individual firms. A broad perspective is adopted, covering a range of functional activities within the firm, including accounting, marketing, finance, law and management.

**Completion requirements**

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<th>Course Name</th>
<th>Credit Points</th>
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<tr>
<td>21717</td>
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<td>21745</td>
<td>Service Operations Management</td>
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<td>21811</td>
<td>Global Strategic Management</td>
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<td>International Human Resources Management</td>
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<td>21854</td>
<td>Innovation and Entrepreneurship</td>
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<td>24738</td>
<td>Strategic International Marketing</td>
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<td>International Finance</td>
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Total 48cp

**MAJ08953 Human Resource Development**

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<th>Course Name</th>
<th>Credit Points</th>
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<tbody>
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<td>013960</td>
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<tr>
<td>013961</td>
<td>Team Communication in the Workplace</td>
<td>6cp</td>
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<td>013972</td>
<td>Organisational Learning</td>
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<td>Options (Human Resource Development major)</td>
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<td>013976</td>
<td>Strategic Human Resource Development</td>
<td>6cp</td>
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<td>013907</td>
<td>Human Resource Development in Organisations</td>
<td>6cp</td>
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</table>

Total 66cp

**MAJ08954 Argentina**

Argentina is the second largest country in Latin America and the eighth largest country in the world, with a population of some 41 million. Argentina is also a country formed by immigration, the majority of the population having Spanish and Italian ancestry. There are also significant mestizo and indigenous populations. Argentina is officially a federation comprising 23 provinces and one autonomous city, Buenos Aires, the capital. The geography of the country is diverse, and includes the vast grasslands of the pampas, the region of Patagonia, and the eastern side of the Andes mountain range; this diversity in turn is responsible for equally diverse climates, from Amazonian tropical conditions to the subpolar conditions of the extreme south. Australia is developing strong links with Argentina, and the local Argentine community is one of Australia’s largest Spanish-speaking communities. Argentina emerged from military dictatorship in 1983 and, despite periods of economic collapse and hyperinflation in the 1990s and early 2000s, is now economically and politically stable. Argentina’s rich cultural traditions range from the tango and the mythologised figure of the gaucho (Argentina’s cowboy) to a literary tradition that has been extraordinarily influential throughout the continent.

Students spend two consecutive semesters studying social science or culture and humanities subjects at one or more institutions of higher education in Argentina through arrangements made by UTS: International Studies. The focus of study varies each semester depending on individual student preferences and the availability of subjects at host institutions. Students are assessed on each semester separately and assessment is based on the subjects undertaken at the host institutions, as well as assessments administered by UTS: International Studies.

Students may expect that no greater costs are incurred through undertaking a period of in-country study in Argentina than are involved in living away from home in Sydney.

**Locations**

**Buenos Aires**

Buenos Aires is the capital and largest city in Argentina. It is situated on the southern shore of the Río de la Plata, on the southeastern coast of the South American continent. It was first established in 1536 by a Spanish expedition led by Pedro de Mendoza. Buenos Aires is today an autonomous federal district with a population of around 13 million. It is also the financial, industrial, commercial and cultural hub of Argentina. Its port is one of the busiest in South America. People in Buenos Aires are called porteños: people of the port. Deeply influenced and self-consciously modelled after its European heritage, Buenos Aires - sometimes called the ‘Paris of South America’ - is the site of Teatro Colón, one of the world’s great opera houses. The city has several symphony orchestras and chorals societies, and numerous museums related to history, fine arts and modern arts. It harbours many public libraries and cultural associations, as well as the largest concentration of active theatres in Latin America. The city has a humid subtropical climate. The average year temperature is 17.6 degrees centigrade, and average high temperatures range from 30.4 in January to 14.9 degrees centigrade in winter.

La Universidad Católica Argentina (UCA) is among the largest and most prestigious private universities in Argentina. It is located in Puerto Madero, one of the oldest suburbs of Buenos Aires. Since its establishment in 1958, UCA has pioneered important educational reforms and attracted prominent academics from diverse fields. Identified closely with its Christian tradition and ethos, UCA promotes academic excellence, personal growth, social justice, and a humanist education.

UCA’s faculties include: Ciencias Agrarias, Ciencias Físicomatemáticas e Ingeniería, Ciencias Médicas, Ciencias Sociales y Económicas, Derecho, Derecho Canónico, Filosofía y Letras, Psicología y Educación, y Teología. Its offerings include: economía, comercio, administración, marketing, ciencias políticas, relaciones internacionales, derecho, ingenierías, informática, filosofía, literatura, historia, música, musicología, educación, periodismo, publicidad, comunicación institucional, agricultura, tecnología de los alimentos, teología y estudios latinoamericanos.

www.uca.edu.ar

**Completion requirements**

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<th>Credit Points</th>
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<td>CBK90484</td>
<td>Spanish Language and Culture</td>
<td>32cp</td>
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<td>977542</td>
<td>In-country Study 1: Argentina</td>
<td>24cp</td>
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<td>978542</td>
<td>In-country Study 2: Argentina</td>
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Total 96cp

**MAJ08956 Project Management**

Select 24 credit points from the following options:

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<td>15330</td>
<td>Program Management</td>
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<tr>
<td>15325</td>
<td>Value Management, Negotiation and Conflict</td>
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<td>15327</td>
<td>Managing Project Complexity</td>
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<td>15312</td>
<td>Communication and Critical Thinking</td>
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<tr>
<td>15314</td>
<td>Project Implementation</td>
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Total 24cp

**MAJ08958 Tourism Management**

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<td>27767</td>
<td>Tourist Behaviour</td>
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<td>27706</td>
<td>Managing Tourism Services</td>
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<td>27700</td>
<td>Sustainable Tourism Management</td>
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<td>27778</td>
<td>Innovative Services Management</td>
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Total 42cp

**MAJ08959 Arts Management**

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<th>Code</th>
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Total 42cp

**MAJ08960 Sport Management**

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<td>Sport Business</td>
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<td>Sport Organisations</td>
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<td>27778</td>
<td>Innovative Services Management</td>
<td>6cp</td>
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<tr>
<td>CBK90612 Electives</td>
<td></td>
<td>12cp</td>
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Total 42cp
Health services planning is a recognised health services speciality area and this major provides a comprehensive range of skills that are necessary for those involved with or intending to work in the planning of health services. These skills include the capacity to identify population health needs and issues, develop goals, strategies and plans for health services and manage projects and change. The major meets the needs of the health industry and has been developed in close consultation with the departments of health in NSW and Queensland.
Completion requirements

A major in economics provides students with a greater understanding of how people, businesses and governments make decisions based on their economic environment. Many current issues discussed in public forums and of concern to business are economic in nature. Economics seeks to understand these issues by developing a systematic approach to analysing resource allocation, price determination, income distribution, economic growth and the welfare consequences of economic policies.

Economists have a wide range of career options. Employers recognise the ability of those trained in economics to think analytically and clearly about a wide range of issues. Economics majors are also well prepared for employment in diverse areas including business, government, consulting, public policy, industrial relations, international relations, media and environmental studies. Economics is a foundation for postgraduate study in many fields.

Students intending to apply for the honours program in economics should take two of the following optional subjects: 23592 Game Theory, 23565 Mathematics for Economics and Business, 23572 Applied Microeconometrics.

MAJ09005 Law
Select 48 credit points from the following options: 48cp
77715 Banking Law 6cp
77724 International Banking and Finance Law 6cp
77885 Legal Process and Legal Research 6cp
77901 Securities Markets Law 6cp
77980 Estate Planning and Trusts 6cp
CJB09032 Major subjects choice (Law) 12cp
Total 48cp

MAJ09209 Economics
The study of economics provides students with a greater understanding of how people, businesses and governments make decisions based on their economic environment. Many current issues discussed in public forums and of concern to business are economic in nature. Economics seeks to understand these issues by developing a systematic approach to analysing resource allocation, price determination, income distribution, economic growth and the welfare consequences of economic policies.

A major in economics provides students with powerful tools to systematically evaluate economic behaviour and policy for a wide range of economic problems: firm and consumer behaviour, labour markets, government tax and expenditure policy, education, environmental and resource management, regulating financial systems and managing the aggregate economy. Key analytical tools include microeconomic and macroeconomic theory, empirical analysis using econometric modelling, and game theory.

Economists have a wide range of career options. Employers recognise the ability of those trained in economics to think analytically and clearly about a wide range of issues. Economics majors are also well prepared for employment in diverse areas including business, government, consulting, public policy, industrial relations, international relations, media and environmental studies. Economics is a foundation for postgraduate study in many fields.

Students intending to apply for the honours program in economics should take two of the following optional subjects: 23592 Game Theory, 23565 Mathematics for Economics and Business, 23572 Applied Microeconometrics.

Anti-requisites: MAJ09402 Extended Economics, SMJ09028 Economics

Completion requirements

23566 Economics for Business 2 6cp
23567 Intermediate Microeconomics 6cp
23568 Intermediate Macroeconomics 6cp
23571 Introductory Econometrics 6cp
23580 The Global Economy (Capstone) 6cp
Select 18 credit points from the following options: 18cp
23021 Labour Economics 6cp
23022 Public Economics 6cp
23418 Economics of Money and Finance 6cp
23569 Economics of Growth and Development 6cp
23570 Economics of the Environment 6cp
23623 Alternative Perspectives in Contemporary Economics 6cp
23565 Mathematics for Economics and Business 6cp
23572 Applied Microeconometrics 6cp
23592 Game Theory 6cp
23593 Industrial Organisation 6cp
23591 Economics of Law 6cp
Total 48cp

MAJ09313 Commercial Law
Select 30 credit points from the following options: 30cp
77945 Current Issues in Taxation 6cp
77715 Banking Law 6cp
77752 Commercial Arbitration (Domestic) 6cp
77761 Dispute Resolution in Commerce 6cp
77900 Goods and Services Tax 6cp
77930 Insurance Law 6cp
77724 International Banking and Finance Law 6cp
77935 International Business Law 6cp
77751 International Commercial Arbitration 6cp
77701 International Economic Law (PG) 6cp
77953 International Taxation Law 6cp
77716 International Trade Law 6cp
77901 Securities Markets Law 6cp
77767 Taxation Administration 6cp
77796 Taxation of Business Entities 6cp
77924 Superannuation and Retirement Planning 6cp
77783 International Commercial Dispute Resolution 6cp
78011 International Sale of Goods 6cp
78026 Business and Law in China 6cp
78042 Environmental Planning and Development Law 6cp
78040 The Law and Education 6cp
76008 Jurisprudence 6cp
76024 Environmental Law 6cp
76053 Industrial Law 6cp
76115 Insolvency 6cp
7612 Revenue Law 6cp
78993 Designs Law and Practice 6cp
78039 Wickedness and Vice 6cp
78041 New Families, New Technologies 6cp
78111 Banking and Finance Law 6cp
78113 Securities Regulation 6cp
78115 Financial Analysis for the Transactional Lawyer 6cp
78117 International Regulation of Financial Institutions 6cp
78122 Corporate Insolvency 6cp
78126 Corporate Governance 6cp
78101 Postgraduate Legal Research 6cp
78181 Deceptive Trade Practices 6cp
78162 Global Governance and Social Justice 6cp
77792 Crisis Negotiation 6cp
78173 Dispute Resolution in Civil Practice 6cp
77745 Negotiation 6cp
77867 Workplace Dispute Resolution 6cp
78029 Mediation Practice 6cp
78107 Climate Change and Carbon Markets 6cp
78109 Globalisation and International Economic Law 6cp
78197 Corporate Finance Transactions 1 6cp
78199 Corporate Finance Transactions 2 6cp
78206 International Organisations 6cp
78209 Taxation of Commercial Enterprises 6cp
Total 48cp

MAJ09320 Dispute Resolution
Select 30 credit points from the following options: 30cp
77746 Advanced Mediation 6cp
77752 Commercial Arbitration (Domestic) 6cp
77792 Crisis Negotiation 6cp
7971 Dispute Resolution 6cp
77761 Dispute Resolution in Commerce 6cp
77760 Family Dispute Resolution 6cp
77751 International Commercial Arbitration 6cp
77745 Negotiation 6cp
77850 Psychology and Dispute Resolution 6cp
77867 Workplace Dispute Resolution 6cp
77783 International Commercial Dispute Resolution 6cp
78029 Mediation Practice 6cp
76008 Jurisprudence 6cp
78173 Dispute Resolution in Civil Practice 6cp
78138 Facilitation 6cp
78101 Postgraduate Legal Research 6cp
78129 Child Law in Australia 6cp
78135 Current Issues in Family Law 6cp
78041 New Families, New Technologies 6cp
78133 Complex Financial and Property Disputes (in Family Law) 6cp
78141 International and Comparative Family Law 6cp
78131 Complex Parenting Disputes 6cp
Total 30cp

MAJ09322 International Law
Select 30 credit points from the following options: 30cp
77704 European Union Law 6cp
77724 International Banking and Finance Law 6cp
77935 International Business Law 6cp
77751 International Commercial Arbitration 6cp
77701 International Economic Law (PG) 6cp
77794 International Environmental Law 6cp
77716 International Trade Law 6cp
77976 World Trade Organisation Law and Practice 6cp
responsibilities in business for a sustainable future. To develop an awareness and understanding of social, legal and ethical issues in the contemporary dynamic business environment. The major provides the skills to enable students to strategically assess, critically interpret and judiciously apply information for decision-making in their interests and professional needs in the global context. This major includes a diverse range of options which they operate. This major includes wide-ranging options which develop an understanding of the legal and regulatory environment within which they operate. This major includes wide-ranging options which develop an understanding of the legal and regulatory environment within which they operate.

Completion requirements
Select 48 credit points from the following options: 48cp
79708 Contemporary Business Law 6cp
77716 International Trade Law 6cp
77715 Banking Law 6cp
79771 Dispute Resolution 6cp
77724 International Banking and Finance Law 6cp
77745 Negotiation 6cp
77885 Legal Process and Legal Research 6cp
77901 Security Markets Law 6cp
77947 Companies and Securities Law 6cp
77938 Introduction to Taxation Law 6cp
77942 Legal Aspects of Contracts Administration 6cp
Total 48cp

MAJ09363 Industrial and Intellectual Property Law
Select 30 credit points from the following options: 30cp
79703 Copyright Law 6cp
77793 Designs Law and Practice 6cp
77786 International Law 6cp
78015 Global Aspects of Intellectual Property Law 6cp
77889 Trade Marks Law 6cp
77990 Trade Marks Practice 6cp
78036 Technology, Law and the Future of Entertainment 6cp
76008 Jurisprudence 6cp
77976 World Trade Organisation Law and Practice 6cp
78039 Wickedness and Vice 6cp
78041 New Families, New Technologies 6cp
78188 Intellectual Property Commercialisation 6cp
78184 Intellectual Property: Law and Policy 6cp
78186 Intellectual Property and Traditional Knowledge 6cp
77891 Patent Systems 6cp
78101 Postgraduate Legal Research 6cp
Total 30cp

MAJ09364 International Trade Law
Select 30 credit points from the following options: 30cp
77704 European Union Law 6cp
77724 International Banking and Finance Law 6cp
77751 International Commercial Arbitration 6cp
77935 International Business Law 6cp
77701 International Economic Law (PG) 6cp
77716 International Trade Law 6cp
77976 World Trade Organisation Law and Practice 6cp
77745 Negotiation 6cp
77746 Advanced Mediation 6cp
77783 International Commercial Dispute Resolution 6cp
77903 Copyright Law 6cp
78008 Law of the Sea 6cp
78011 International Sale of Goods 6cp
79771 Dispute Resolution 6cp
78015 Global Aspects of Intellectual Property Law 6cp
78023 International Trade Law and the Environment 6cp
77889 Trade Marks Law 6cp
77890 Trade Marks Practice 6cp
78026 Business and Law in China 6cp
76008 Jurisprudence 6cp
77893 Designs Law and Practice 6cp
78141 International and Comparative Family Law 6cp
78153 International Commercial Transactions 6cp
78156 International Environmental Law: Policy and Implementation 6cp
78158 Private International Law 6cp
78160 Rights and Obligations in the International Legal System 6cp
78162 Global Governance and Social Justice 6cp
78182 Human Rights Law 6cp
78188 Intellectual Property Commercialisation 6cp
78186 Intellectual Property and Traditional Knowledge 6cp
78101 Postgraduate Legal Research 6cp
Total 30cp
MAJ09367 Family Law
Select 30 credit points from the following options: 30cp
77747 Advanced Mediation 6cp
79771 Dispute Resolution 6cp
79770 Family Dispute Resolution 6cp
79775 Negotiation 6cp
78041 New Families, New Technologies 6cp
78040 The Law and Education 6cp
76908 Jurisprudence 6cp
78129 Child Law in Australia 6cp
78133 Complex Financial and Property Disputes (in Family Law) 6cp
78135 Current Issues in Family Law 6cp
78138 Facilitation 6cp
78141 International and Comparative Family Law 6cp
78131 Complex Parenting Disputes 6cp
78101 Postgraduate Legal Research 6cp
77850 Psychology and Dispute Resolution 6cp
Total 30cp

MAJ09368 Aboriginal Studies and Language, Literacy and Numeracy
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
013103 Issues in Aboriginal Education 6cp
013088 Educational Management 6cp
013082 Aboriginal Social and Political History 6cp
013081 Aboriginal Studies Project 6cp
013981 Teaching Aboriginal Studies 6cp
013149 The Language Literacy and Numeracy Learner 6cp
013102 Introduction to Language 6cp
013971 Teaching and Learning Numeracy 6cp
013148 Initiatives in Teaching and Learning Literacy 6cp
Total 66cp

MAJ09370 Language, Literacy and Numeracy
013118 Teaching and Learning Literacy 6cp
013102 Introduction to Language 6cp
013110 Programming and Assessment in Language Literacy and Numeracy 6cp
CBK90551 Options (Language, Literacy and Numeracy major) 36cp
013971 Teaching and Learning Numeracy 6cp
013149 The Language Literacy and Numeracy Learner 6cp
Total 66cp

MAJ09371 Vocational Education
CBK90552 Options (Vocational Education major) 48cp
013088 Educational Management 6cp
013966 e-Learning Experiences 6cp
013152 Individual Difference and Vocational Education Teaching 6cp
Total 66cp

MAJ09373 Aboriginal Studies and Community Adult Education
015189 Facilitating Learning 6cp
015033 Programming for Community Learning 6cp
015144 Education and Cultural Diversity 6cp
015012 International Perspectives on Adult Education 6cp
Total 96cp

MAJ09380 Latino USA
With a population of some 307 million and composed of 50 states, the United States of America is the third-largest nation in terms of size and population in the world. It is the only 20th century superpower to enter the 21st century with its power intact and still boasts the world's largest national economy, the strongest military and extraordinary and faced by the Mexican city of Tijuana, San Diego is the seventh largest city in the USA with a population of 1.3 million, and a greater metropolitan population of three million. Its Latino population is the largest city in the USA with a population of 1.3 million, and a greater metropolitan population of three million. Its Latino population is one of the world's largest Spanish-speaking countries, and that Latinisation is inexorably transforming the USA, and hence Australia's understanding of that country. Already in many cities, Spanish has joined English as a de facto second language and, in some parts of the USA, Spanish has or is approaching majority status. The Latino population of the USA currently stands at some 30 million, a figure that does not include so-called illegal residents, estimated at between 12 and 15 million people, or the four million residents of Puerto Rico. It is estimated that by 2050, Latinos will comprise more than 25 per cent of the US population. Most observers posit that Latinos will be a majority in their own right by the end of the 21st century. The Latino USA major is designed for students to learn about and experience first hand the demographic, cultural, linguistic, socioeconomic and political processes of Latinisation in the USA. The major prepares students for understanding how those latinating processes will transform the USA, and how other parts of the world regard and relate to that country. Students who select this major take advantage of the current demographic, political, cultural and linguistic transformation of the USA, giving them important skills for any professional area conducted in the Pacific region. The Latino USA major allows students to learn Spanish, to learn about the history and cultures of the USA’s heterogeneous Latino sectors, and to spend an academic year of study at universities in parts of the USA with large Latino populations. This major focuses on the ‘core’ and longest-established Latino sectors: Chicanos and Mexican-Americans, the largest Latino population and the one swelled by coming mass migration from Mexico; US-resident Puerto Ricans, and Cuban-Americans. But the major also provides space for deeper understanding of other significant Latino communities. Students spend two consecutive semesters studying Spanish language and Latino cultures at one of the sites below through arrangements made by UTS: International Studies. The sites are located in areas of the USA with substantial Latino populations, thus enabling international studies students to speak Spanish on a daily basis and to undertake research projects based on and in Latino communities.
- San Diego State University
- University of Arizona, Tucson
- University of Texas at El Paso
- University of Miami, Florida.

Students are assessed separately each semester, based on subjects undertaken at the host institutions, as well as assessments administered by UTS: International Studies. The sites are located in areas of the USA with substantial Latino populations, thus enabling international studies students to speak Spanish on a daily basis and to undertake research projects based on and in Latino communities.

Semester dates
- Semester 1: early January to mid-May (US Spring semester)
- Semester 2: early August to mid-December (US Fall semester)

Locations
San Diego, California
Located in the southwest corner of California on the US-Mexico border and faced by the Mexican city of Tijuana, San Diego is the seventh largest city in the USA with a population of 1.3 million, and a greater metropolitan population of three million. Its Latino population is around 30 per cent of the total. Some 195 kilometres south of Los Angeles, San Diego has long served as a port of cultural transition between California and Mexico. The city’s coastal location means that residents have easy access to a string of fine beaches and some of the best surfing on the US west coast. The climate is mild, daytime temperatures rarely straying over 30 degrees in summer or dropping below 20 in the winter.

San Diego State University (SDSU) is the largest university in San Diego and the third largest in California. SDSU is home to nearly 33,000 students and approximately 6,000 academic faculty and administrative staff. The main SDSU campus is located in a Mexican-American stronghold, and is connected by regular buses to downtown San Diego, the trip taking approximately half an hour. The campus is compact, most of its streets have Aztec/Nahuat names, and the buildings are in a fetching neo-Spanish colonial style, surrounded by impressive cactus gardens and lush landscaping. Another campus is located 160 kilometres to the east at El Centro, a major centre on the California-Mexico border whose population is predominantly Spanish-speaking. SDSU offers undergraduate programs at both campuses in Arts and Letters (Humanities), Business Administration, Education, Engineering, Health and Human Services, Professional Studies and Fine Arts (this faculty includes journalism, tourism, TV/media production, community arts, art, design and art history) and the Sciences.
In-country study students and students on exchange have the option of studying at either campus. If based at the main campus, students undertake classes in Spanish language and Latino, Chicano and Border studies in both semesters of in-country study. Exchange students select subjects in their professional degree area with the approval of their faculty. UTEP is the second largest university in the USA. The main campus of the University of Arizona is located in the heart of Tucson. UA has 18 colleges and 12 schools, which cover such disciplines as humanities, fine arts, agriculture and life sciences, architecture, planning and landscape architecture, education, engineering and mines, pharmacy, public health, science, and social and behavioral sciences. In-country study students undertake subjects in Spanish language and culture, and US Latino studies.

Arizona, Tucson, is a thriving desert city of some 525,000 people, and a greater county population of one million, in the south of Arizona, some 100km from the US-Mexico border and the twin cities of Nogales. Bounded by four groups of mountains, Tucson is located in one of the most spectacular desert environments in the USA, home to a huge range of cacti. Given its border and desert location, Tucson has also been one of the most significant US settings for contact and interaction between American, Indigenous and Mexican. The Tohono O’odham and the Yaqui nations have a significant presence in the city and in nearby reservations. The Latino population of Tucson is around 40 per cent and growing steadily.

El Paso, Texas
Located on the US-Mexico border at the conjunction of the US states of New Mexico and Texas, and surrounded by the Chihuahuan Desert, El Paso is a thriving border city with a population of some 610,000. Latinos, mostly Mexican American, comprise 80 per cent of the city total, and Spanish is the city’s dominant language. Across the Rio Grande (Río Bravo del Norte) lies the Mexican city of Ciudad Juárez, which has a population of some 1.6 million. Together the two cities form a vast border-straddling metropolis.

UTS students who select the University of Miami for in-country study undertake classes in Spanish language and Latino, Chicano and Border studies in both semesters of study. Exchange students select subjects in their professional degree area with the approval of their faculty. UTM is one of the top ranked research universities in the USA. The main campus of the University of Arizona is located in the heart of Tucson. UA has 18 colleges and 12 schools, which cover such disciplines as humanities, fine arts, agriculture and life sciences, architecture, planning and landscape architecture, education, engineering and mines, pharmacy, public health, science, and social and behavioral sciences. In-country study students undertake subjects in Spanish language and culture, and US Latino studies.

Study package directory: Majors

MAJ09381 International Trade Law
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Total 96cp

Study programs at SDSU

www.sdsu.edu

Tucson, Arizona
Arizona, Tucson, is a thriving desert city of some 525,000 people, and a greater county population of one million, in the south of Arizona, some 100km from the US-Mexico border and the twin cities of Nogales. Bounded by four groups of mountains, Tucson is located in one of the most spectacular desert environments in the USA, home to a huge range of cacti. Given its border and desert location, Tucson has also been one of the most significant US settings for contact and interaction between American, Indigenous and Mexican. The Tohono O’odham and the Yaqui nations have a significant presence in the city and in nearby reservations. The Latino population of Tucson is around 40 per cent and growing steadily.

UTS: Handbook 2013

Completion requirements
976001 Foundations in International Studies 8cp
976502 Contemporary Latin(o) Americas 16cp
977620 In-country Study 1: Latino USA 24cp
978620 In-country Study 2: Latino USA 24cp
CBK90484 Spanish Language and Culture 32cp
Total 96cp
MAJ09382 International Law
Select 30 credit points from the following options: 30cp
77704 European Union Law 6cp
78015 Global Aspects of Intellectual Property Law 6cp
77724 International Banking and Finance Law 6cp
77935 International Business Law 6cp
77751 International Commercial Arbitration 6cp
77783 International Commercial Dispute Resolution 6cp
78010 International Criminal Law 6cp
777701 International Economic Law (PG) 6cp
77794 International Environmental Law 6cp
78016 International Humanitarian Law 6cp
78011 International Sale of Goods 6cp
77716 International Trade Law 6cp
77976 World Trade Organisation Law and Practice 6cp
78008 Law of the Sea 6cp
78023 International Trade Law and the Environment 6cp
78036 Technology Law and the Future of Entertainment 6cp
78008 Jurisprudence 6cp
76002 Sports Law 6cp
78005 Islamic Law 6cp
78021 Contemporary Issues in Constitutional Law 6cp
78041 New Families, New Technologies 6cp
78145 Contemporary Issues in Health Law 6cp
78147 Dilemmas in Biomedical Law 6cp
78180 Converging Media Industries: Regulatory Practice 6cp
78170 Law and Mental Health 6cp
78153 International Commercial Transactions 6cp
78156 International Environmental Law: Policy and Implementation 6cp
78158 Private International Law 6cp
78160 Rights and Obligations in the International Legal System 6cp
78162 Global Governance and Social Justice 6cp
78164 Law and Regulation 6cp
78166 Media and Entertainment Law and Regulation 6cp
78168 Perspectives on Regulation 6cp
78170 Regulatory Strategies and Compliance Principles 6cp
78178 Telecommunications Law and Regulations 6cp
78180 Converging Media Industries: Regulatory Challenges 6cp
78181 International and Comparative Family Law 6cp
78106 Business and Law in China 6cp
78105 Genetics and the Law 6cp
78107 Climate Law and Carbon Markets 6cp
78109 Globalisation and International Economic Law 6cp
78126 Corporate Governance 6cp
78201 International Development Law 6cp
78129 Child Law in Australia 6cp
78133 Complex Financial and Property Disputes (in Family Law) 6cp
78181 Deceptive Trade Practices 6cp
78186 Intellectual Property Commercialisation 6cp
78188 Intellectual Property and Traditional Knowledge 6cp
77796 Taxation of Business Entities 6cp
77924 Superannuation and Retirement Planning 6cp
78026 Business and Law in China 6cp
78042 Environmental Planning and Development Law 6cp
78040 The Law and Education 6cp
78006 Jurisprudence 6cp
78024 Environmental Law 6cp
78053 Industrial Law 6cp
76115 Insolvency 6cp
76212 Revenue Law 6cp
76002 Sports Law 6cp
76069 Community Justice Studies 6cp
77893 Designs Law and Practice 6cp
78021 Contemporary Issues in Constitutional Law 6cp
78039 Wickedness and Vice 6cp
78041 New Families, New Technologies 6cp
78111 Banking and Finance Law 6cp
78113 Securities Regulation 6cp
78115 Financial Analysis for the Transactional Lawyer 6cp
78117 International Regulation of Financial Institutions 6cp
78122 Corporate Insolvency 6cp
78126 Corporate Governance 6cp
78181 Deceptive Trade Practices 6cp
78162 Global Governance and Social Justice 6cp
78107 Climate Law and Carbon Markets 6cp
77792 Crisis Negotiation 6cp
78173 Dispute Resolution in Civil Practice 6cp
78129 Mediation Practice 6cp
78109 Globalisation and International Economic Law 6cp
77745 Negotiation 6cp
77867 Workplace Dispute Resolution 6cp
78197 Corporate Finance Transactions 1 6cp
78199 Corporate Finance Transactions 2 6cp
78206 International Organisations 6cp
78209 Taxation of Commercial Enterprises 6cp
Total 30cp

MAJ09384 Industrial and Intellectual Property Law
Select 30 credit points from the following options: 30cp
77903 Copyright Law 6cp
77893 Designs Law and Practice 6cp
78015 Global Aspects of Intellectual Property Law 6cp
77898 Patent Law 6cp
77889 Trade Marks Law 6cp
77890 Trade Marks Practice 6cp
78036 Technology Law and the Future of Entertainment 6cp
76008 Jurisprudence 6cp
76008 Media and Entertainment Law 6cp
76006 Community Justice Studies 6cp
77796 World Trade Organisation Law and Practice 6cp
78039 Wickedness and Vice 6cp
78041 New Families, New Technologies 6cp
78188 Intellectual Property Commercialisation 6cp
77991 Patent Systems 6cp
78184 Intellectual Property: Law and Policy 6cp
78186 Intellectual Property and Traditional Knowledge 6cp
Total 30cp

MAJ09385 Commercial Law
Select 30 credit points from the following options: 30cp
76047 Advanced Contracts 6cp
77945 Current Issues in Taxation 6cp
77775 Banking Law 6cp
77752 Commercial Arbitration (Domestic) 6cp
77761 Dispute Resolution in Commerce 6cp
77900 Goods and Services Tax 6cp
77930 Insurance Law 6cp
77724 International Banking and Finance Law 6cp
77935 International Business Law 6cp
77751 International Commercial Arbitration 6cp
77783 International Commercial Dispute Resolution 6cp
77701 International Economic Law (PG) 6cp
78011 International Sale of Goods 6cp
77953 International Taxation Law 6cp
77716 International Trade Law 6cp
77901 Securities Markets Law 6cp
77767 Taxation Administration 6cp
77796 Taxation of Business Entities 6cp
77924 Superannuation and Retirement Planning 6cp
78026 Business and Law in China 6cp
78042 Environmental Planning and Development Law 6cp
78040 The Law and Education 6cp
78006 Jurisprudence 6cp
78024 Environmental Law 6cp
78053 Industrial Law 6cp
76115 Insolvency 6cp
76212 Revenue Law 6cp
76002 Sports Law 6cp
76069 Community Justice Studies 6cp
77893 Designs Law and Practice 6cp
78021 Contemporary Issues in Constitutional Law 6cp
78039 Wickedness and Vice 6cp
78041 New Families, New Technologies 6cp
78111 Banking and Finance Law 6cp
78113 Securities Regulation 6cp
78115 Financial Analysis for the Transactional Lawyer 6cp
78117 International Regulation of Financial Institutions 6cp
78122 Corporate Insolvency 6cp
78126 Corporate Governance 6cp
78181 Deceptive Trade Practices 6cp
78162 Global Governance and Social Justice 6cp
78107 Climate Law and Carbon Markets 6cp
77792 Crisis Negotiation 6cp
78173 Dispute Resolution in Civil Practice 6cp
78129 Mediation Practice 6cp
78109 Globalisation and International Economic Law 6cp
77745 Negotiation 6cp
77867 Workplace Dispute Resolution 6cp
78197 Corporate Finance Transactions 1 6cp
78199 Corporate Finance Transactions 2 6cp
78206 International Organisations 6cp
78209 Taxation of Commercial Enterprises 6cp
Total 30cp

MAJ09385 Family Law
Select 30 credit points from the following options: 30cp
77746 Advanced Mediation 6cp
77971 Dispute Resolution 6cp
77760 Family Dispute Resolution 6cp
77745 Negotiation 6cp
78041 New Families, New Technologies 6cp
78040 The Law and Education 6cp
76008 Jurisprudence 6cp
76005 Islamic Law 6cp
78129 Child Law in Australia 6cp
78131 Complex Parenting Disputes 6cp
78133 Complex Financial and Property Disputes (in Family Law) 6cp
78135 Current Issues in Family Law 6cp
78138 Facilitation 6cp
MAJ09386 Dispute Resolution Law
Select 30 credit points from the following options: 30cp

- Advanced Mediation (6cp)
- Commercial Arbitration (Domestic) (6cp)
- Dispute Resolution (6cp)
- Dispute Resolution in Commerce (6cp)
- Family Dispute Resolution (6cp)
- International Commercial Arbitration (6cp)
- International Commercial Dispute Resolution (6cp)
- Jurisprudence (6cp)
- Mediation Practice (6cp)
- Psychology and Dispute Resolution (6cp)
- Workplace Dispute Resolution (6cp)
- World Trade Organisation Law (6cp)
- Child Law in Australia (6cp)
- Complex Parenting Disputes (6cp)
- International and Comparative Family Law (6cp)
- Complex Financial and Property Disputes (in Family Law) (6cp)

Total 30cp

MAJ09387 Information Technology Law
Select 30 credit points from the following options: 30cp

- Copyright Law (6cp)
- Designs Law and Practice (6cp)
- Patent Law (6cp)
- Global Aspects of Intellectual Property Law (6cp)
- Trade Marks Law (6cp)
- Trade Marks Practice (6cp)
- Technology, Law and the Future of Entertainment (6cp)
- Jurisprudence (6cp)
- Community Justice Studies (6cp)
- Wickedness and Vice (6cp)
- New Families, New Technologies (6cp)

Total 30cp

MAJ09388 Commercial Law
Select 30 credit points from the following options: 30cp

- International Economic Law (PG) (6cp)
- Banking Law (6cp)
- International Trade Law (6cp)
- International Banking and Finance Law (6cp)
- International Commercial Arbitration (6cp)
- Commercial Arbitration (Domestic) (6cp)
- Dispute Resolution in Commerce (6cp)
- Taxation Administration (6cp)
- International Commercial Dispute Resolution (6cp)
- Taxation of Business Entities (6cp)
- Goods and Services Tax (6cp)
- Securities Markets Law (6cp)
- Superannuation and Retirement Planning (6cp)
- International Business Law (6cp)
- Current Issues in Taxation (6cp)
- International Taxation Law (6cp)
- International Sale of Goods (6cp)
- Business and Law in China (6cp)
- Jurisprudence (6cp)
- Environmental Law (6cp)
- Industrial Law (6cp)
- Insolvency (6cp)

Total 30cp

MAJ09389 International Trade Law
Select 30 credit points from the following options: 30cp

- International Economic Law (PG) (6cp)
- European Union Law (6cp)
- International Trade Law (6cp)
- International Banking and Finance Law (6cp)
- Negotiation (6cp)
- Advanced Mediation (6cp)
- International Commercial Arbitration (6cp)
- Copyright Law (6cp)
- International Business Law (6cp)
- World Trade Organisation Law and Practice (6cp)
- Law of the Sea (6cp)
- International Sale of Goods (6cp)
- Global Aspects of Intellectual Property Law (6cp)
- International Trade Law and the Environment (6cp)
- Dispute Resolution (6cp)
- Trade Marks Law (6cp)
- Trade Marks Practice (6cp)
- Business and Law in China (6cp)
- Jurisprudence (6cp)
- Designs Law and Practice (6cp)
- International and Comparative Family Law (6cp)
- International Commercial Transactions (6cp)
- International Environmental Law: Policy and Implementation (6cp)
- Private International Law (6cp)
- Rights and Obligations in the International Legal System (6cp)
- Global Governance and Social Justice (6cp)
- Human Rights Law (6cp)
- International Criminal Law (6cp)

Total 30cp

MAJ09390 Corporate and Commercial Law
Note: This major is only available to students enrolled in the Master of Laws (COM143) (see page 328) and the Doctor of Juridical Science (C02027) (see page 474).

Market crashes and corporate collapses. The rise of multinationals wielding global influence and yet too often hitting the headlines, accused of scandal and questionable ethics. These are challenging times for corporate and commercial law. Imbued with a distinctively international focus, this specialisation explores and critiques current controversies, advances a deeper understanding of law and emphasises improvement in regulation, policy and practice.
### MAJ09395 Social Inquiry

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<thead>
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<tr>
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<td>Introduction to Social Inquiry</td>
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<tr>
<td>58123</td>
<td>Society, Economy and Globalisation</td>
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<tr>
<td>58124</td>
<td>Local Transformations</td>
<td>8cp</td>
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<tr>
<td>58218</td>
<td>Ideology, Beliefs and Visions</td>
<td>8cp</td>
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<tr>
<td>58219</td>
<td>Social Change Communication</td>
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<td>58314</td>
<td>Social Inquiry Placement</td>
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### MAJ09396 Aboriginal Studies and Language, Literacy and Numeracy

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<tr>
<td>013103</td>
<td>Issues in Aboriginal Education</td>
<td>6cp</td>
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<tr>
<td>013088</td>
<td>Educational Management</td>
<td>6cp</td>
</tr>
<tr>
<td>013082</td>
<td>Aboriginal Social and Political History</td>
<td>6cp</td>
</tr>
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<td>013081</td>
<td>Aboriginal Studies Project</td>
<td>6cp</td>
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<tr>
<td>013981</td>
<td>Teaching Aboriginal Studies</td>
<td>6cp</td>
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<tr>
<td>013149</td>
<td>The Language Literacy and Numeracy Learner</td>
<td>6cp</td>
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<tr>
<td>013102</td>
<td>Introduction to Language</td>
<td>6cp</td>
</tr>
<tr>
<td>013971</td>
<td>Teaching and Learning Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013118</td>
<td>Teaching and Learning Literacy</td>
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<tr>
<td>013148</td>
<td>Initiatives in Aboriginal Education</td>
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<tr>
<td>010070</td>
<td>Professional Practice 1 Language Literacy</td>
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<tr>
<td>010071</td>
<td>Professional Practice 2 Language Literacy</td>
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### MAJ09397 Language, Literacy and Numeracy

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<tr>
<td>013102</td>
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<td>013110</td>
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<td>6cp</td>
</tr>
<tr>
<td>013971</td>
<td>Teaching and Learning Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>013149</td>
<td>The Language Literacy and Numeracy Learner</td>
<td>6cp</td>
</tr>
<tr>
<td>010070</td>
<td>Professional Practice 1 Language Literacy</td>
<td>6cp</td>
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<tr>
<td>010071</td>
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<tr>
<td>013958</td>
<td>Language Teaching Methodology</td>
<td>6cp</td>
</tr>
<tr>
<td>013152</td>
<td>Individual Difference and Vocational Education Teaching</td>
<td>6cp</td>
</tr>
<tr>
<td>013831</td>
<td>Maths for Numeracy Teachers</td>
<td>6cp</td>
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### MAJ09398 Vocational Education

<table>
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<tr>
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<tr>
<td>013088</td>
<td>Educational Management</td>
<td>6cp</td>
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<tr>
<td>013966</td>
<td>e-Learning Experiences</td>
<td>6cp</td>
</tr>
<tr>
<td>013152</td>
<td>Individual Difference and Vocational Education Teaching</td>
<td>6cp</td>
</tr>
<tr>
<td>010072</td>
<td>Professional Practice 1 Vocational Education and Training</td>
<td>6cp</td>
</tr>
<tr>
<td>010073</td>
<td>Professional Practice 2 Vocational Education and Training</td>
<td>6cp</td>
</tr>
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<td></td>
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### MAJ09399 Legal Studies

<table>
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<th>Title</th>
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<tbody>
<tr>
<td>76006</td>
<td>Public International Law</td>
<td>6cp</td>
</tr>
<tr>
<td>70110</td>
<td>Introduction to Law</td>
<td>6cp</td>
</tr>
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<td>Select 36 credit points from the following options:</td>
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<tr>
<td>76003</td>
<td>Asian Law and Legal Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>76005</td>
<td>Islamic Law</td>
<td>6cp</td>
</tr>
<tr>
<td>76007</td>
<td>International Human Rights Law</td>
<td>6cp</td>
</tr>
<tr>
<td>76008</td>
<td>Jurisprudence</td>
<td>6cp</td>
</tr>
<tr>
<td>76068</td>
<td>Indigenous Peoples and the Law</td>
<td>6cp</td>
</tr>
<tr>
<td>76081</td>
<td>Gender, Law and Sexuality</td>
<td>6cp</td>
</tr>
<tr>
<td>76073</td>
<td>Indigenous Peoples, the Environment and Property</td>
<td>6cp</td>
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<tr>
<td>77704</td>
<td>European Union Law</td>
<td>6cp</td>
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<tr>
<td>77794</td>
<td>International Environmental Law</td>
<td>6cp</td>
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<tr>
<td>78008</td>
<td>Law of the Sea</td>
<td>6cp</td>
</tr>
<tr>
<td>78016</td>
<td>International Humanitarian Law</td>
<td>6cp</td>
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<tr>
<td>78039</td>
<td>Wickedness and Vice</td>
<td>6cp</td>
</tr>
<tr>
<td>78009</td>
<td>Introduction to Chinese Business Law</td>
<td>6cp</td>
</tr>
<tr>
<td>76013</td>
<td>World Trade Law</td>
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</table>
MAJ09600 Intellectual Property

Note: This major is only available to students enrolled in the Master of Laws (CD04143) (see page 328) and the Doctor of Juridical Science (C02027) (see page 474).

The rise of the information economy – the age of ideas – has created new areas of law to keep pace. Intellectual Property covers the broad canvas of such rights, including trademarks, patents, designs and copyrights, as well as issues of infringement. As a rapidly developing area of law, this specialisation offers students both a critical grounding in the foundations of intellectual property and an examination of key tensions - such as piracy, infringement and international trade agreements, and how indigenous rights are weighed against commercial interests of major pharmaceuticals.

Note: Many of the subjects in this major are taught by distance only. International students should be aware that their visa may require them to enrol in at least 75 per cent of subjects via face-to-face teaching.

Completion requirements
Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>78190</td>
<td>Patent Law</td>
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</tr>
<tr>
<td>78191</td>
<td>Patent Systems</td>
<td>8cp</td>
</tr>
<tr>
<td>78192</td>
<td>Trade Marks Law</td>
<td>8cp</td>
</tr>
<tr>
<td>78193</td>
<td>Trade Marks Practice</td>
<td>8cp</td>
</tr>
<tr>
<td>78194</td>
<td>Designs Law and Practice</td>
<td>8cp</td>
</tr>
<tr>
<td>78195</td>
<td>Copyright Law</td>
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</tr>
<tr>
<td>78189</td>
<td>Intellectual Property Commercialisation</td>
<td>8cp</td>
</tr>
<tr>
<td>78185</td>
<td>Intellectual Property: Law and Policy</td>
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</tr>
<tr>
<td>78187</td>
<td>Intellectual Property: Law and Policy: Traditional</td>
<td>8cp</td>
</tr>
<tr>
<td>78180</td>
<td>Postgraduate Legal Research</td>
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<tr>
<td>78183</td>
<td>Global Aspects of Intellectual Property Law</td>
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MAJ09401 Business Law

The Business Law major introduces students to legal issues that impact upon the business sector. This major builds upon introductory law subjects and gives students the opportunity to study a range of subjects that assist their careers.

Completion requirements
Select 48 credit points from the following options: 48cp

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>STM90558</td>
<td>Law for Business</td>
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<tr>
<td>STM90559</td>
<td>Foundations of Law</td>
<td>48cp</td>
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<td>48cp</td>
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</table>

MAJ09402 Extended Economics

Knowledge of both theoretical and applied aspects of economics provides students with a strong basis for understanding economic behaviour and for evaluating economic policy. This major provides the opportunity to obtain a more extensive knowledge of economics and its fields.

Subjects in the extended economics major address a wide range of economic problems and analytical techniques. Students intending to apply for the honours program in economics should include 23592 Game Theory, 23565 Mathematics for Economics and Business and/or 23572 Applied Microeconometrics as optional subjects.

Anti-requisites: MAJ09209 Economics, SMJ09028 Economics

Completion requirements
Select 36 credit points from the following options: 36cp

<table>
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<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<td>23566</td>
<td>Economics for Business 2</td>
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<tr>
<td>23592</td>
<td>Game Theory</td>
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<tr>
<td>23567</td>
<td>Intermediate Microeconomics</td>
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<tr>
<td>23568</td>
<td>Intermediate Macroeconomics</td>
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</tr>
<tr>
<td>23571</td>
<td>Introductory Econometrics</td>
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</tr>
<tr>
<td>23580</td>
<td>The Global Economy (Capstone)</td>
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<tr>
<td>23021</td>
<td>Labour Economics</td>
<td>6cp</td>
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<tr>
<td>23022</td>
<td>Public Economics</td>
<td>6cp</td>
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<td>23304</td>
<td>Asian-Australian Economics Relations</td>
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<tr>
<td>23418</td>
<td>Economics of Money and Finance</td>
<td>6cp</td>
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<td>23625</td>
<td>Alternative Perspectives in Contemporary Economics</td>
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MAJ09403 Corporate and Commercial Law

Select 24 credit points from the following options: 24cp

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<thead>
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<tr>
<td>78186</td>
<td>Taxation of Commercial Enterprises</td>
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<tr>
<td>78216</td>
<td>Competition Law in a Global Context</td>
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<tr>
<td>78227</td>
<td>Financial Services Law and Compliance in Australia</td>
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<tr>
<td>78205</td>
<td>Commercial Law and Compliance</td>
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<tr>
<td>78214</td>
<td>Finance Law</td>
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MAJ09405 International Law

Select 24 credit points from the following options: 24cp

<table>
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<tr>
<td>78216</td>
<td>Competition Law in a Global Context</td>
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<tr>
<td>78227</td>
<td>Financial Services Law and Compliance in Australia</td>
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MAJ09406 Intellectual Property

Select 24 credit points from the following options: 24cp

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<tr>
<td>77890</td>
<td>Trade Marks Practice</td>
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</table>
Colombia is one of the most fascinating, culturally and biologically diverse countries in Latin America and is located in the north-west of the South American continent close to Panama. It has a population of over 46 million people. It was originally the centre of Gran Colombia, a post-independence confederation of Colombia, Venezuela, Panama, and Ecuador. Colombia is bordered to the northwest by Panama; to the north by the Caribbean Sea; to the east by Venezuela and Brazil; to the south by Ecuador and Peru; and to the west by the Pacific Ocean. It has a vast range of climatic conditions, from the snow-capped Andes and volcanoes, to the Amazonian jungle, the Guajira desert and fertile savannahs. Bogotá is the capital of Colombia and is located in the centre of the country at an elevation of about 2650m (8660ft) above sea level on a mountain rimmed savannah high in the Cordillera Oriental of the Andes Mountains. This gives it constant spring like weather. It was founded in 1538 by the Spanish conquistador Gonzalo Jiménez de Quesada. The new city became the vice-regal capital of New Granada in 1717. It was captured by Simón Bolívar in 1819 and was the capital of the independent nation of Great Colombia. Bogotanos preserve and cherish their churches, convents, homes (built in the ornate Spanish colonial style) and these influences are still visible. Bogotanos pride themselves on claiming their city as the Athens of South America and the city is Colombia’s largest financial, political, cultural and educational centre. Its 7.3 million inhabitants include a multitude of immigrants from all over the world, which makes the capital a true microcosm of the nation. Modern highrises and skyscrapers contrast with old houses of colonial and republican architecture. Bogotá offers residents and visitors everything that a modern city can give. Cultural activities abound and its enormous selection of restaurants, bars and nightclubs offers all kinds of food and entertainment. Industries include printing and publishing, motor vehicle assembly, food processing, and the manufacture of beverages, textiles, metals goods, machinery, and electrical equipment. Many banks and corporations maintain their headquarters in the city. Railroads and highways, including the Pan-American Highway, link the city with other major centres.

**Locations**

**Bogotá**

**Universidad de los Andes**

The University of the Andes (Universidad de los Andes) is one of Colombia’s best public universities, home to approximately 17,000 students. It is located in the centre of Bogotá against the base of the mountains and has handsome views of the city and is close to other major universities. It is a coeducational, nonsectarian private university located in city centre Bogotá, Colombia. The University has nine faculties: Administration, Architecture and Design, Arts and Humanities, Sciences, Social Sciences, Law, Economics, Engineering and Medicine, which offer undergraduate and postgraduate programs; and the Center for Research and Teaching in Education (CIFE), and the Interdisciplinary Center for Development Studies (CIDER), for postgraduate programs. It is ranked as a top tier university in Latin America, occupying sixth place in the subcontinent according to the QS Times Higher Education classification. The university was founded in 1948 by a group of Colombian intellectuals and was the first university in the country to be nonsectarian, that is, independent of political parties or influence from the state or the church. Today, the University seeks to model itself after major research universities through strategies such as greater focus on graduate education and research.

www.uniandes.edu.co

www.uniandes.edu.co/component/content/article/656-about-uniandes

**Academic calendar**

- Semester 1: mid-January to early May
- Semester 2: mid-August to late November
- Summer semester: early June to late July

**Pontificia Universidad Javeriana**

The Pontificia Universidad Javeriana is one of the oldest private universities in Colombia, founded in 1623. Its main faculties are in Bogotá and a second campus in Cali. It has 18 schools comprising 61 departments and 181 academic programs catering to different areas of knowledge, giving the university its multidisciplinary nature. The Javeriana University in Cali offers 18 schools in four different faculties. It is located in Pance in Southern Cali and is considered to be a very prestigious university. The Javeriana has a Latin American Centre, which teaches Spanish language and culture classes. These classes are complimentary. The language centre is the oldest such language centre attached to a university in Colombia (established in the 1940s). It includes field trips (coffee plantations, craftwork centres, etc.) as part of its offerings. Students learn the vocabulary associated with the activities at the destination and then put them into practice on the fieldwork trip. The Alfonso Borrero Calab, S.J. Library is open 24 hours a day during the week. Javeriana’s students have the opportunity to participate in internship programs and in social projects, in Bogotá or nationwide, where they can apply the acquired knowledge in their field of study. Javeriana University is a research-based University. It is ranked first among private universities in Colombia for having the largest number of refereed journals, and fifth for having the most research groups recognised by the National Agency of Science and Technology for their quality and productivity. The Sport Centre offers over 30 different sports. The University has a student population of 22,000 on its main campus in Bogotá and is easily accessible by public transportation. Javeriana University offers through Centro Atico next generation learning experience. Centro Atico is the first communication and information technological resource centre in Latin America for the development of education, sound, image and design. Javeriana University has its own, high quality University Hospital.

www.javeriana.edu.co

www.javeriana.edu.co/facultades/comunicacion_lenguaje/centro_lat/in_center.htm

**Universidad de La Sabana, Chia, Bogotá**

La Sabana is a private university situated to the north of Bogotá in the satellite city of Chia, a mostly middle-class city with Spanish colonial architecture located in the beautiful dairy cattle country of the Savannahs surrounded by the Colombian Andes. The university was founded in 1979. It has recently gone through an ambitious expansion with high-tech buildings (eco-friendly designs) to house ultra-modern radio, TV and journalism courses. The university has an ultra-modern Communication's Media Production Centre. La Sabana specialises in Business /Marketing, Engineering (all types), Medicine (it offers PhDs in Engineering and medicine), Nursing/Physiotherapy /Psychology, Education, Communication/Journalism, Law (especially human rights), and it has a Humanities Institute. The university also has a clinic, a health institution that deals with all medical disciplines and is one of the most important rehabilitation centres in Latin America. The clinic is an important centre for research, teaching and community service. The university currently runs 18 undergraduate programs. There are also 31 specialisation programs and five master’s programs. Education, Process Management and Direction, Business Administration, Nursing, and English Language Teaching. La Sabana has a doctoral program in Biosciences. Master’s programs in Nursing include Critical Pediatric Care, Rehabilitation Management and School Health.

www.unisabana.edu.co

**Completion requirements**

- 796001 Foundations in International Studies 8cp
- 976502 Contemporary Latin(o) Americas 8cp
- 977911 In-country Study 1: Colombia 24cp
- 979891 In-country Study 2: Colombia 24cp
- 781001 Postgraduate Legal Research 8cp
- 78114 Financial Analysis for the Transactional Lawyer 8cp
- 78116 International Regulation of Financial Institutions 8cp

**MAJ09410 Global Business Law**

Select 24 credit points from the following options: 24cp

- 781001 Postgraduate Legal Research 8cp
- 78159 Rights and Obligations in the International Legal System 8cp
- 78157 Negotiation 8cp
- 78175 Globalisation and International Economic Law 8cp
- 78114 Financial Analysis for the Transactional Lawyer 8cp
- 78116 International Regulation of Financial Institutions 8cp
MAJ09411 Global Business Law
Select 24 credit points from the following options: 24cp

MAJ09412 China Major
CBK09487 Chinese Language and Culture 16cp
978136 In-country Study: China 24cp
979510 Contemporary China 8cp
Total 48cp

MAJ09413 Japan Major
CBK09488 Japanese Language and Culture 16cp
978140 In-country Study: Japan 24cp
979511 Contemporary Japan 8cp
Total 48cp

MAJ09414 France Major
CBK09490 French Language and Culture 16cp
978137 In-country Study: France 24cp
979512 Contemporary France 8cp
Total 48cp

MAJ09415 Spain Major
CBK09491 Spanish Language and Culture 16cp
978143 In-country Study: Spain 24cp
979513 Contemporary Spain 8cp
Total 48cp

MAJ09416 Germany Major
CBK09492 German Language and Culture 16cp
978138 In-country Study: Germany 24cp
979514 Contemporary Germany 8cp
Total 48cp

MAJ09417 Italy Major
CBK09493 Italian Language and Culture 16cp
978139 In-country Study: Italy 24cp
979515 Contemporary Italy 8cp
Total 48cp

MAJ09418 Canada (Quebec) Major
CBK09490 French Language and Culture 16cp
978134 In-country Study: Canada 24cp
979516 Contemporary Canada (Quebec) 8cp
Total 48cp

MAJ09419 Switzerland Major
979517 Contemporary Switzerland 8cp
978144 In-country Study: Switzerland 24cp
9CBK09895 Switzerland Options 16cp
Total 48cp

MAJ09420 Chile Major
CBK09491 Spanish Language and Culture 16cp
978135 In-country Study: Chile 24cp
979518 Contemporary Latin(o) Americas 8cp
Total 48cp

MAJ09421 Mexico Major
CBK09491 Spanish Language and Culture 16cp
978142 In-country Study: Mexico 24cp
979518 Contemporary Latin(o) Americas 8cp
Total 48cp

MAJ09422 Argentina Major
CBK09491 Spanish Language and Culture 16cp
978145 In-country Study: Argentina 24cp
979518 Contemporary Latin(o) Americas 8cp
Total 48cp

MAJ09423 Colombia
CBK09491 Spanish Language and Culture 16cp
978141 In-country Study: Colombia 24cp
979518 Contemporary Latin(o) Americas 8cp
Total 48cp

MAJ09424 Latin(o) USA Major
CBK09491 Spanish Language and Culture 16cp
978141 In-country Study: Latino USA 24cp
979518 Contemporary Latin(o) Americas 8cp
Total 48cp

MAJ09425 Dispute Resolution
78136 Dispute Resolution 8cp
Select 16 credit points from the following options: 16cp
78127 Advanced Mediation 8cp
78124 Dispute Resolution in Commerce 8cp
78137 Facilitation 8cp
78139 Family Dispute Resolution 8cp
78143 Psychology and Dispute Resolution 8cp
78171 Crisis Negotiation 8cp
78172 Dispute Resolution in Civil Practice 8cp
78174 Mediation Practice 8cp
78175 Negotiation 8cp
78176 Workplace Dispute Resolution 8cp
78119 Commercial Arbitration (Domestic) 8cp
78100 Postgraduate Legal Research 8cp
Total 24cp

MAJ09426 Dispute Resolution
79771 Dispute Resolution 6cp
Select 18 credit points from the following options: 18cp
77745 Negotiation 6cp
78029 Mediation Practice 6cp
77746 Advanced Mediation 6cp
77760 Family Dispute Resolution 6cp
77867 Workplace Dispute Resolution 6cp
77850 Psychology and Dispute Resolution 6cp
78173 Dispute Resolution in Civil Practice 6cp
78138 Facilitation 6cp
77792 Crisis Negotiation 6cp
77752 Commercial Arbitration (Domestic) 6cp
Total 24cp
MAJ10006 Children's Art
020965 Drawing  6cp
020966 Painting and Printmaking  6cp
020967 Structure and Sequence in 3-Dimensional Arts  6cp
Total 24cp

MAJ10007 Youth Performance Studies
Select 6 credit points from the following options:  6cp
020963 Arts in the Community 6cp
020964 Creative Arts Method  6cp
020966 Painting and Printmaking  6cp
020967 Structure and Sequence in 3-Dimensional Arts  6cp
024913 Literary Theory  6cp
024915 The Multi-arts of Children's Literature  6cp
024918 Australian Children's Literature  6cp
020962 Creative Arts Practice  6cp
020203 Music, Media and Children  6cp
Total 24cp

MAJ10012 Science/TAS (Computing)
Free choice of electives.

MAJ10014 Information Design
Select 24 credit points from the following options:  24cp
88913 Visual Information Project 6cp
88912 Histories of Visual Information Design  6cp
88911 Design for Visual Information Systems  6cp
89400 Design Capstone Project 12cp
Total 24cp

MAJ10015 Photomedia
Select 24 credit points from the following options:  24cp
88901 Observational Photography 6cp
88902 Digital Photography  6cp
88903 Photographic Fabrication  6cp
88904 Photographic Construction  6cp
89400 Design Capstone Project 12cp
Total 24cp

MAJ10016 Branding Design
Select 24 credit points from the following options:  24cp
88941 Experience Economy 6cp
88942 Experience Branding  6cp
88943 Brand Strategy  6cp
88944 Branding Project  6cp
89400 Design Capstone Project 12cp
Total 24cp

MAJ10017 Digitally Mediated Environments
11401 Digital Master Class A  6cp
11403 Digital Master Class B  6cp
Select 12 credit points from the following options:  12cp
11400 Digital Theory  6cp
89204 2D Digital Animation  6cp
89202 3D Digital Animation 1  6cp
89200 Graphic Visualisation  6cp
89201 Animation Genres Seminar  6cp
Total 24cp

MAJ10018 Animation Design
89204 2D Digital Animation  6cp
89202 3D Digital Animation 1  6cp
89203 3D Digital Animation 2  6cp
Select 6 credit points from the following options:  6cp
89200 Graphic Visualisation  6cp
89201 Animation Genres Seminar  6cp
Total 24cp

MAJ10019 Communication
58101 Understanding Communication 8cp
58102 Language and Discourse  8cp
58103 Ideas in History  8cp
Select 24 credit points from the following options:  24cp
STM90512 Journalism stream  24cp
STM90514 Public Communication stream  24cp
STM90515 Writing and Cultural Studies stream  24cp
STM90516 Social Inquiry stream  24cp
STM90517 Information and Media stream  24cp
Total 48cp

MAJ10020 Journalism
58110 Introduction to Journalism 8cp
58111 Reporting with Sound and Image  8cp
58112 Reporting and Editing for Print and Online Journalism  8cp
58210 Storytelling, Narrative and Features  8cp
58211 Specialist Reporting, Audiences and Interactivity  8cp
58310 Media Hub  8cp
Total 48cp

MAJ10021 Media Arts and Production
58113 Exploring Media Arts 8cp
58114 Fictions: Storytelling, Narrative and Drama  8cp
58115 Composing the Real  8cp
58212 Aesthetics  8cp
58213 Research and Practice  8cp
58311 Media Arts Project  8cp
Total 48cp

MAJ10022 Writing and Cultural Studies
58119 Text and Context  8cp
58120 Creativity and Culture  8cp
58121 Fictional Forms  8cp
58216 Imagining the Real  8cp
58217 Experiments in Culture  8cp
58313 Writing Laboratory  8cp
Total 48cp

MAJ10023 Information and Media
58125 Creative Information Design  8cp
58126 Information Discovery and Analysis  8cp
58127 Information Cultures  8cp
58220 Designing for the Web  8cp
58221 Social Informatics  8cp
58315 Storing Objects and Artifacts  8cp
Total 48cp

MAJ10024 Public Communication
58116 The Ecology of Public Communication  8cp
58312 Integrated Communication  8cp
Select 32 credit points from the following options:  32cp
STM90715 Advertising stream 32cp
STM90716 Public Relations stream 32cp
Total 48cp

MAJ10026 Interactivation
89111 Interactivation Studio: Autumn 12cp
89112 Interactivation Studio: Spring  12cp
89113 Interactivation Studio: Final Project  12cp
Total 36cp

MAJ10027 Fashion and Textiles Studio
89015 Textile and Fashion Innovation  12cp
89016 Reframing Fashion and Textile Practice  12cp
89017 Fashion and Textiles Entrepreneur  12cp
Total 36cp

MAJ10028 Design for Change: Sustainability, Design and Creative Futures
89120 Sustainability, Design and Creative Futures: Being Human  12cp
89121 Sustainability, Design and Creative Futures: Spatio-Temporal Shifts  12cp
89122 Sustainability, Design and Creative Futures: Critical Economies  12cp
Total 36cp
**MAJ10029 Information Visualisation**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tr>
<td>89123</td>
<td>Experimental Visual Communications: Research Through Design</td>
<td>12cp</td>
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<tr>
<td>89124</td>
<td>Experimental Visual Communications: Visualising the Invisible</td>
<td>12cp</td>
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<tr>
<td>89125</td>
<td>Experimental Visual Communications: Final Project</td>
<td>12cp</td>
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<td></td>
<td><strong>Total</strong></td>
<td><strong>36cp</strong></td>
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</tbody>
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**MAJ10030 Global Business Law**

This major is designed to have appeal to both local and international students and is based on an appreciation of the requirements of legal practitioners working in overseas law firms, as well as providing people working locally with key concepts of the international framework of business. Students undertaking this major are able to increase their knowledge and understanding in the key areas of international commercial transactions and corporate governance, finance, competition law, intellectual property protection and commercialisation and dispute resolution. Offerings addressing the rise of China's economy assist students in gaining a global perspective and ability to engage with Australia's Asian partners.

**Completion requirements**

Select 24 credit points from the following options:

- Postgraduate Legal Research 8cp
- Rights and Obligations in the International Legal System 8cp
- Negotiation 8cp
- Globalisation and International Economic Law 8cp
- Financial Analysis for the Transactional Lawyer 8cp
- International Regulation of Financial Institutions 8cp
- Corporate Finance Transactions 1 8cp
- Corporate Finance Transactions 2 8cp
- Business and Law in China 8cp
- International Commercial Transactions 8cp
- Private International Law 8cp
- Global Governance and Social Justice 8cp
- Dispute Resolution in Commerce 8cp
- Crisis Negotiation 8cp
- Mediation Practice 8cp
- Climate Law and Carbon Markets 8cp
- International Environmental Law: Policy and Implementation 8cp
- International Organisations 8cp
- Global Aspects of Intellectual Property Law 8cp
- Intellectual Property Commercialisation 8cp
- Competition Law in a Global Context 8cp
- Environmental and Sustainable Development Law of China 8cp
- Total 24cp

**MAJ10036 Design for Change**

Select 36 credit points from the following options:

- Design Studio 1: Human-centred Design 12cp
- Design Studio 2: Social Design Practice/ Critical Reflection 12cp
- Design Studio 3: Resilience and Creative Practice 12cp
- Design for Change: Specific Retail Environments 12cp
- Design for Change: Reinvigorating Retail Precincts 12cp
- Design for Change: Retail Futures 12cp
- Total 36cp

**SUB-MAJORS**

**SMJ01005 Chemistry**

This sub-major provides an appropriate knowledge base for business students who aim to enter chemical or related industries. It is offered at City campus only.

**Completion requirements**

- Chemistry 1 6cp
- Chemistry 2 6cp
- Select 12 credit points from the following options: 12cp
- Organic Chemistry 1 6cp
- Analytical Chemistry 1 6cp
- Physical Chemistry 1 6cp
- Inorganic Chemistry 1 6cp
- Chemical Safety and Legislation 6cp
- Total 24cp

**SMJ01007 Mathematics**

The Mathematics sub-major provides students with an interest in the applications of mathematics with the opportunity to apply this to a business setting.

**Completion requirements**

- Introduction to Linear Dynamical Systems 6cp
- Introduction to Analysis and Multivariable Calculus 6cp
- Computational Linear Algebra 6cp
- Introduction to Quantitative Management 6cp
- Total 24cp

**SMJ01009 Statistics**

This sub-major focuses on statistical techniques for the analysis of data used in industry and commerce.

**Completion requirements**

- Introduction to Linear Dynamical Systems 6cp
- Regression Analysis 6cp
- Quality Control 6cp
- Design and Analysis of Experiments 6cp
- Stochastic Models 6cp
- Total 24cp

**SMJ01010 Electronics and Computer Interfacing**

- Foundations of Physics 6cp
- Physics in Action 6cp
- Applied Electronics and Interfacing 6cp
- Measurement and Analysis of Physical Processes 6cp
- Total 24cp

**SMJ01011 Operations Research**

This sub-major is concerned with the application of mathematical techniques to provide decision support for industry and commerce.

**Completion requirements**

- Introduction to Linear Dynamical Systems 6cp
- Optimisation in Quantitative Management 6cp
- Network and Combinatorial Optimisation 6cp
- Stochastic Models 6cp
- Total 24cp

**SMJ01012 Physics**

- Foundations of Physics 6cp
- Physics in Action 6cp
- Imaging Science 6cp
- Advanced Mechanics 6cp
- Measurement and Analysis of Physical Processes 6cp
- Total 24cp
SMJ01025 Quantitative Management
35101 Introduction to Linear Dynamical Systems 6cp
35241 Optimisation in Quantitative Management 6cp
Select 12 credit points from the following options: 12cp
35342 Nonlinear Methods in Quantitative Management 6cp
35363 Stochastic Models 6cp
35344 Network and Combinatorial Optimisation 6cp
35340 Quantitative Management Practice 6cp
Total 24cp

SMJ01026 Quantitative Management
35101 Introduction to Linear Dynamical Systems 6cp
35241 Optimisation in Quantitative Management 6cp
Select 12 credit points from the following options: 12cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35340 Quantitative Management Practice 6cp
Total 24cp

SMJ01029 Quantitative Methods
35101 Introduction to Linear Dynamical Systems 6cp
35344 Network and Combinatorial Optimisation 6cp
35340 Quantitative Management Practice 6cp
Total 24cp

SMJ01030 Statistics (Life Sciences)
35101 Introduction to Linear Dynamical Systems 6cp
35353 Regression Analysis 6cp
35356 Design and Analysis of Experiments 6cp
Select 6 credit points from the following options: 6cp
35255 Forensic Statistics 6cp
35363 Stochastic Models 6cp
35100 Introduction to Sample Surveys 6cp
Total 24cp

SMJ01031 Statistics (Physical Sciences)
35363 Stochastic Models 6cp
35353 Regression Analysis 6cp
35352 Mathematical Statistics 6cp
35361 Stochastic Processes 6cp
Total 24cp

SMJ01032 Statistical Modelling
35151 Introduction to Statistics 6cp
35353 Regression Analysis 6cp
Select 12 credit points from the following options: 12cp
35100 Introduction to Sample Surveys 6cp
35355 Quality Control 6cp
35356 Design and Analysis of Experiments 6cp
35363 Stochastic Models 6cp
Total 24cp

SMJ01043 Business Information Systems Management
Select 24 credit points from the following options: 24cp
31257 Information System Development Methodologies 6cp
31255 Finance and IT 6cp
31247 Collaborative Business Processes 6cp
31245 Business Process and IT Strategy 6cp
31258 Innovations for Global Relationship Management 6cp
31276 Networked Enterprise Architecture 6cp
31282 Systems Testing and Quality Management 6cp
Total 24cp

SMJ01044 Enterprise Systems Development
48024 Applications Programming 6cp
31260 Interface Design 6cp
Select 12 credit points from the following options: 12cp
31251 Data Structures and Algorithms 6cp
48440 Software Engineering Practice 6cp
31253 Database Programming 6cp
48433 Software Architecture 6cp
Total 24cp

SMJ01045 Internetworking and Applications
31277 Routing and Internetworks 6cp
31275 Mobile Networking 6cp
31265 Network Security 6cp
Select 6 credit points from the following options: 6cp
31284 Web Services Development 6cp
31246 Network Design 6cp
31283 LANs and Virtual LANs 6cp
31285 Mobile Applications Development 6cp
31254 e-Commerce 6cp
Total 24cp

SMJ01046 Computing and Data Analysis
31250 Introduction to Data Analytics 6cp
31284 Web Services Development 6cp
31259 Intelligent Agents 6cp
Select 6 credit points from the following options: 6cp
35241 Optimisation in Quantitative Management 6cp
35232 Advanced Calculus 6cp
35252 Mathematical Statistics 6cp
35322 Advanced Analysis 6cp
35335 Mathematical Methods 6cp
35340 Quantitative Management Practice 6cp
35342 Nonlinear Methods in Quantitative Management 6cp
35344 Network and Combinatorial Optimisation 6cp
35356 Design and Analysis of Experiments 6cp
35361 Stochastic Processes 6cp
35391 Seminar (Mathematics) 6cp
35393 Seminar (Statistics) 6cp
Total 24cp

SMJ01048 Environmental Sciences
91110 Experimental Design and Sampling 6cp
91154 Ecology 6cp
91145 Environmental Protection and Management 6cp
Select 6 credit points from the following options: 6cp
91120 GIS and Remote Sensing 6cp
91121 Aquatic Ecology 6cp
Total 24cp

SMJ02015 Strategic Information Technology
Select 24 credit points from the following options: 24cp
32509 Interaction Design 6cp
32531 Global Information Systems 6cp
32536 Advanced Software Modelling 6cp
32702 Contemporary Telecommunications 6cp
32208 Information Systems Strategy 6cp
32148 Enterprise Computing 6cp
42900 Sustainability and Information Systems 6cp
Total 24cp

SMJ02036 Business Information Systems
This sub-major provides students with theoretical and practical knowledge of the way in which information systems contribute to effective business. The electives provide a closer look at a variety of key aspects of information systems development and use.

Completion requirements
31266 Introduction to Information Systems 6cp
31269 Business Requirements Modelling 6cp
Select 12 credit points from the following options: 12cp
31245 Business Process and IT Strategy 6cp
31257 Information System Development Methodologies 6cp
31247 Collaborative Business Processes 6cp
31258 Innovations for Global Relationship Management 6cp
31276 Networked Enterprise Architecture 6cp
31282 Systems Testing and Quality Management 6cp
31254 e-Commerce 6cp
31777 Human-Computer Interaction 6cp
Total 24cp
SMJ02037 Information Technology
This sub-major provides a general understanding of the main aspects of the IT field, from a slightly more technical perspective than SMJ02036. Students gain an appreciation of the complexity of IT development and the many possibilities for future uses of IT in business.

Completion requirements
Select 24 credit points from the following options:
31266 Introduction to Information Systems 6cp
31270 Networking Essentials 6cp
31061 Database Principles 6cp
31268 Web Systems 6cp
48025 Programming Fundamentals 6cp
Total 24cp

SMJ02038 Information Technology
This sub-major is designed for students who have an information technology background or a keen interest in information technology. It offers the participant either a platform entry for those with a non-IT background or a more specialised entry for those with an IT background. The innovative programs cover growth areas such as computer graphics and gaming, data mining, e-business technology, human-centred design, interactive multimedia, internet networking and strategic IT management.

The ability to understand both management and technology is increasingly valued by modern enterprises, and as society continues to become more and more technology dependent it is clear those who have effective knowledge and can manage technology are well suited for leadership positions; via this sub-major participants have the opportunity to acquire knowledge, strategies and skills that cover the applications and management of technology.

Completion requirements
Select one of the following:
STM90695 Core subjects 24cp
CBK90802 Choice 24cp
Total 24cp

SMJ02039 Computer Graphics and Animation
31264 Introduction to Computer Graphics 6cp
Select 18 credit points from the following options:
18cp
31262 Introduction to Computer Game Design 6cp
31263 Introduction to Computer Game Programming 6cp
31248 Computer Graphics Project 6cp
31241 3D Computer Animation 6cp
31249 Computer Graphics Rendering Techniques 6cp
Total 24cp

SMJ02040 Software Engineering
Select 24 credit points from the following options:
24cp
31030 Project 6cp
31005 Data Mining Algorithms 6cp
31250 Introduction to Data Analytics 6cp
31253 Database Programming 6cp
31259 Intelligent Agents 6cp
Total 24cp

SMJ02043 Internetworking
31283 WANs and Virtual LANs 6cp
31246 Network Design 6cp
31252 Network Security 6cp
31274 Network Management 6cp
Total 24cp

SMJ02044 Mobile Computing
CBK90746 Mobile Computing Network choice 6cp
31285 Mobile Applications Development 6cp
Select 12 credit points from the following options:
12cp
31091 Mobile Computing Project 6cp
31252 Network Security 6cp
31275 Mobile Networking 6cp
Total 24cp

SMJ02045 Applications Development
31257 Information System Development Methodologies 6cp
Select 18 credit points from the following options:
18cp
31927 Application Development with .NET 6cp
31335 Extreme Programming 6cp
31777 Human-Computer Interaction 6cp
31100 Enterprise Development with .NET 6cp
31030 Project 6cp
Total 24cp

SMJ02047 IT Management
31735 Information Systems and Organisation Development 6cp
31245 Business Process and IT Strategy 6cp
Select 12 credit points from the following options:
12cp
31096 Managing Client/Vendor Relations 6cp
31097 IT Operations Management 6cp
31950 Networked Enterprise Design 6cp
31777 Human-Computer Interaction 6cp
31030 Project 6cp
Total 24cp

SMJ02054 Scientific Computing
35363 Stochastic Models 6cp
35212 Computational Linear Algebra 6cp
35383 High Performance Computing 6cp
Select 6 credit points from the following options:
6cp
35231 Differential Equations 6cp
48023 Programming Fundamentals 6cp
Total 24cp

SMJ02056 Operations Theory and Management
35140 Introduction to Quantitative Management 6cp
35241 Optimisation in Quantitative Management 6cp
Select 12 credit points from the following options:
12cp
35342 Nonlinear Methods in Quantitative Management 6cp
35363 Stochastic Models 6cp
35340 Quantitative Management Practice 6cp
35344 Network and Combinatorial Optimisation 6cp
Total 24cp

SMJ02057 Scientific Computing
35101 Introduction to Linear Dynamical Systems 6cp
35212 Computational Linear Algebra 6cp
35231 Differential Equations 6cp
35383 High Performance Computing 6cp
Total 24cp

SMJ02059 Information Technology
Select 24 credit points from the following options:
24cp
31266 Introduction to Information Systems 6cp
31268 Web Systems 6cp
31269 Business Requirements Modelling 6cp
31270 Networking Essentials 6cp
31271 Database Fundamentals 6cp
31284 Web Services Development 6cp
48024 Applications Programming 6cp
Total 24cp

SMJ02064 Business Information Systems Management
In the Business Information Systems Management sub-major students undertake 24 credit points from the corresponding major (MAJ02080).

Completion requirements
Select 24 credit points from the following options:
24cp
31245 Business Process and IT Strategy 6cp
31257 Information System Development Methodologies 6cp
31247 Collaborative Business Processes 6cp
31258 Innovations for Global Relationship Management 6cp
31255 Finance and IT 6cp
31276 Networked Enterprise Architecture 6cp
31282 Systems Testing and Quality Management 6cp
31097 IT Operations Management 6cp
Total 24cp
SMJ02065 Data Analytics
In this sub-major students undertake 24 credit points from the corresponding major (MAJ02081).

Completion requirements
35151 Introduction to Statistics 6cp
31250 Introduction to Data Analytics 6cp
Select 12 credit points from the following options: 12cp
31000 e-Business Trading 6cp
31259 Intelligent Agents 6cp
31256 Image Processing and Pattern Recognition 6cp
31005 Data Mining Algorithms 6cp
31050 Programming with Patterns 6cp
31075 Object-relational Databases 6cp
32146 Data Visualisation and Virtual Analytics 6cp
Total 24cp

SMJ02066 Computer Graphics and Animation
The subjects in this sub-major provide the theoretical and practical knowledge that is required to understand and build modern 3D computer graphics applications. This knowledge is applied to building a ray tracer, producing a 3D computer animation and carrying out a computer graphics project. The project can be in any area of graphics; a popular topic recently has been to build a real time renderer using OpenGL.

Completion requirements
31264 Introduction to Computer Graphics 6cp
Select 18 credit points from the following options: 18cp
31262 Introduction to Computer Game Design 6cp
31263 Introduction to Computer Game Programming 6cp
31241 3D Computer Animation 6cp
31248 Computer Graphics Project 6cp
31249 Computer Graphics Rendering Techniques 6cp
31080 Digital Multimedia 6cp
Total 24cp

SMJ02069 Information Technology
Select 24 credit points from the following options: 24cp
32560 IS Architecture - A Cloud Perspective 6cp
32569 Enterprise Business Requirements 6cp
32557 Enabling Enterprise Information Systems 6cp
32559 Business Process Design 6cp
32555 Fundamentals of Software Development 6cp
32148 Enterprise Computing 6cp
Total 24cp

SMJ03029 Technology
16074 International Construction 6cp
16075 Sustainable Building Technology 6cp
16076 Building Assessment 6cp
16077 Advanced Construction Technologies 6cp
Total 24cp

SMJ03034 Computer Systems Engineering
48440 Software Engineering Practice 6cp
48450 Real-time Operating Systems 6cp
48570 Data Acquisition and Distribution 6cp
Total 24cp

SMJ03036 Enterprise Systems Development
In this sub-major students undertake 24 credit points from the corresponding major (MAJ03444).

Completion requirements
48024 Applications Programming 6cp
31260 Interface Design 6cp
Select 12 credit points from the following options: 12cp
31251 Data Structures and Algorithms 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
31253 Database Programming 6cp
31100 Enterprise Development with .NET 6cp
31335 Extreme Programming 6cp
31927 Application Development with .NET 6cp
31075 Object-relational Databases 6cp
Total 24cp

SMJ03037 Internetworking and Applications
In the Internetworking and Applications sub-major students undertake 24 credit points from the corresponding major (MAJ03445).

Completion requirements
31277 Routing and Internetworks 6cp
31275 Mobile Networking 6cp
31252 Network Security 6cp
Select 6 credit points from the following options: 6cp
31294 Web Services Development 6cp
31246 Network Design 6cp
31283 WANS and Virtual LANs 6cp
31285 Mobile Applications Development 6cp
31254 e-Commerce 6cp
31338 Network Servers 6cp
Total 24cp

SMJ03038 Software
48024 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
CBK90366 ICT choice 18cp
Total 54cp

SMJ03039 Software
48024 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
CBK90368 ICT choice 6cp
Total 42cp

SMJ03040 Software
48024 Applications Programming 6cp
48440 Software Engineering Practice 6cp
48433 Software Architecture 6cp
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
CBK90367 ICT choice 12cp
Total 48cp

SMJ03041 Computer Systems
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
CBK90366 ICT choice 18cp
Total 54cp

SMJ03042 Computer Systems
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
CBK90368 ICT choice 6cp
Total 42cp

SMJ03043 Computer Systems
48430 Embedded C 6cp
48434 Embedded Software 6cp
48450 Real-time Operating Systems 6cp
48520 Electronics and Circuits 6cp
48451 Advanced Digital Systems 6cp
48570 Data Acquisition and Distribution 6cp
CBK90367 ICT choice 12cp
Total 48cp
SMJ03044 Telecommunications
- 48770 Continuous Communications 6cp
- 48771 Discrete Communications 6cp
- 48780 Mobile Communications 6cp
- 48740 Communications Networks 6cp
- 48730 Authentication and System Security 6cp
- 48750 Network Planning and Management 6cp
- CBK90366 ICT choice 18cp
Total 54cp

SMJ03045 Telecommunications
- 48770 Continuous Communications 6cp
- 48771 Discrete Communications 6cp
- 48780 Mobile Communications 6cp
- 48740 Communications Networks 6cp
- 48730 Authentication and System Security 6cp
- 48750 Network Planning and Management 6cp
- CBK90366 ICT choice 12cp
Total 42cp

SMJ03046 Telecommunications
- 48770 Continuous Communications 6cp
- 48771 Discrete Communications 6cp
- 48780 Mobile Communications 6cp
- 48740 Communications Networks 6cp
- 48730 Authentication and System Security 6cp
- 48750 Network Planning and Management 6cp
- CBK90367 ICT choice 6cp
Total 48cp

SMJ03047 Biomedical Engineering
- 91161 Cell Biology and Genetics 6cp
- 91400 Human Anatomy and Physiology 6cp
- 49261 Biomedical Instrumentation 6cp
- 49275 Neural Networks and Fuzzy Logic 6cp
Total 24cp

SMJ03048 Building Services
- 16308 Services 2 6cp
- 16424 Construction MIS 6cp
- 16107 Planning and Design Process 6cp
- 16205 Services 1 6cp
Total 24cp

SMJ03049 Mechanical Engineering
- 48610 Introduction to Mechanical and Mechatronic Engineering 6cp
Select 18 credit points from the following options: 18cp
- 48620 Fundamentals of Mechanical Engineering 6cp
- 48331 Mechanics of Solids 6cp
- 48621 Manufacturing Engineering 6cp
- 48641 Fluid Mechanics 6cp
- 48651 Thermodynamics 6cp
- 48661 Heat Transfer 6cp
Total 24cp

SMJ03050 Mechatronics
- 48610 Introduction to Mechanical and Mechatronic Engineering 6cp
- 48620 Fundamentals of Mechanical Engineering 6cp
- 48600 Mechanical Design 1 6cp
- 48623 Mechatronics 2 6cp
Total 24cp

SMJ03051 Network Engineering
- 48720 Network Fundamentals 6cp
- 48740 Communications Networks 6cp
- 48730 Authentication and System Security 6cp
- 48750 Network Planning and Management 6cp
Total 24cp

SMJ03052 Software Engineering
- 48023 Programming Fundamentals 6cp
- 48440 Software Engineering Practice 6cp
- 48024 Applications Programming 6cp
- 48433 Software Architecture 6cp
Total 24cp

SMJ03053 Advanced Mechanical Analysis
Select 24 credit points from the following options: 24cp
- 49325 Computer-aided Mechanical Design 6cp
- 49322 Airconditioning 6cp
- 48662 Mechanical Applications 6cp
- 49323 Vibration Analysis 6cp
- 49321 Energy Conversion 6cp
- 49328 Turbomachines 6cp
Total 24cp

SMJ03054 Sustainable Energy Systems Analysis
Select 24 credit points from the following options: 24cp
- 49322 Airconditioning 6cp
- 49307 Internal Combustion Engines 6cp
- 49328 Turbomachines 6cp
- 49321 Energy Conversion 6cp
- 49316 Materials Handling 6cp
Total 24cp

SMJ03055 Automation
Select 24 credit points from the following options: 24cp
- 48023 Programming Fundamentals 6cp
- 48531 Electromechanical Automation 6cp
- 48622 Mechatronics 1 6cp
- 49928 Design Optimisation for Manufacturing 6cp
Total 24cp

SMJ03056 Advanced Manufacturing Systems
Select 24 credit points from the following options: 24cp
- 49325 Computer-aided Mechanical Design 6cp
- 49316 Materials Handling 6cp
- 49928 Design Optimisation for Manufacturing 6cp
- 48662 Mechanical Applications 6cp
- 49322 Airconditioning 6cp
- 49323 Vibration Analysis 6cp
Total 24cp

SMJ03057 Automotive Systems
Select 24 credit points from the following options: 24cp
- 49325 Computer-aided Mechanical Design 6cp
- 49286 Vehicle Design 6cp
- 49928 Design Optimisation for Manufacturing 6cp
- 49328 Turbomachines 6cp
- 49307 Internal Combustion Engines 6cp
- 49323 Vibration Analysis 6cp
Total 24cp

SMJ03058 Intelligent Systems
Select 24 credit points from the following options: 24cp
- 49274 Advanced Robotics 6cp
- 48621 Biomedical Instrumentation 6cp
- 49928 Design Optimisation for Manufacturing 6cp
- 49330 Sensors and Signal Processing 6cp
- 49329 Control of Mechatronic Systems 6cp
Total 24cp

SMJ03059 Sustainable Energy Systems
Select 24 credit points from the following options: 24cp
- 49322 Airconditioning 6cp
- 49328 Turbomachines 6cp
- 49321 Energy Conversion 6cp
- 49307 Internal Combustion Engines 6cp
- 49323 Vibration Analysis 6cp
Total 24cp

SMJ03060 Manufacturing Automation
Select 24 credit points from the following options: 24cp
- 49312 Advanced Flow Modelling 6cp
- 49316 Materials Handling 6cp
- 49928 Design Optimisation for Manufacturing 6cp
- 49329 Control of Mechatronic Systems 6cp
- 49330 Sensors and Signal Processing 6cp
Total 24cp
SMJ03061 Engineering
Select 24 credit points from the following options: 24cp
49098 Engineering Financial Control 6cp
49306 Quality and Operations Management Systems 6cp
49309 Quality Planning and Analysis 6cp
49680 Value Chain Engineering Systems 6cp
49016 Technology and Innovation Management 6cp
49006 Risk Management in Engineering 6cp
Total 24cp

SMJ03429 Engineering Policy
Select 24 credit points from the following options: 24cp
49006 Risk Management in Engineering 6cp
49122 Ecology and Sustainability 6cp
49001 Judgment and Decision Making 6cp
49016 Technology and Innovation Management 6cp
Total 24cp

SMJ04014 Building Surveying
16078 Fire Dynamics 6cp
16079 Performance-based Certification 6cp
16080 Fire Safety Systems 6cp
16081 Human Behaviour in Fire 6cp
Total 24cp

SMJ04015 General Practice
16082 Expert Witness 6cp
16083 Evolution of Technology 6cp
16084 Construction Practice Project 6cp
16085 Building Control and Regulations 6cp
Total 24cp

SMJ04016 Architectural Experience
11294 Architectural Experience A 6cp
11295 Architectural Experience B 6cp
11296 Architectural Experience C 6cp
11297 Architectural Experience D 6cp
Total 24cp

SMJ04023 Performative Spaces
86530 Design Studio: Performative Spaces 1 12cp
86533 Design Studio: Performative Spaces 2 12cp
Total 24cp

SMJ06020 Anaesthesitcs and Recovery Room Nursing
Select one of the following: 6cp
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
Select one of the following: 6cp
92869 Specialty Clinical Practice 6cp
STM90040 Clinical Accreditation Program (NSLHD) 6cp
92905 Dimensions of Anaesthesia Nursing 6cp
92760 Clinical Accreditation Program (NSLHD) 6cp
Total 24cp

SMJ06022 Children’s Nursing
92713 Health Breakdown 6cp
92869 Specialty Clinical Practice 6cp
92878 Care of the Child in Illness and Disability 6cp
92902 Care of the Acutely Ill Child 6cp
Total 24cp

SMJ06023 Critical Care Nursing
92713 Health Breakdown 6cp
92869 Specialty Clinical Practice 6cp
92918 Fundamentals of Critical Care Nursing 6cp
92919 Complex Critical Care 6cp
Total 24cp

SMJ06024 Mental Health Nursing
92869 Specialty Clinical Practice 6cp
92604 Mental Health Assessment 6cp
92605 Therapeutic Interventions in Mental Health Care 2 6cp
92876 Therapeutic Interventions in Mental Health Care 6cp
Total 24cp

SMJ06025 Neonatal Nursing
92869 Specialty Clinical Practice 6cp
92713 Health Breakdown 6cp
92871 Perinatal Development 6cp
92895 Issues in Neonatal Care 6cp
Total 24cp

SMJ06026 Neuroscience Nursing
92869 Specialty Clinical Practice 6cp
92713 Health Breakdown 6cp
92920 Neuroscience: Trauma and Cerebrovascular 6cp
92921 Neuroscience: Degenerative and Oncological 6cp
Total 24cp

SMJ06027 Perioperative Nursing
92869 Specialty Clinical Practice 6cp
92881 Foundations of Perioperative Nursing 6cp
92882 Techniques in Perioperative Nursing 6cp
CBK90056 Nursing subjects (PG) 6cp
Total 24cp

SMJ06032 Acute Care Nursing
92713 Health Breakdown 6cp
92869 Specialty Clinical Practice 6cp
92616 Core Concepts in Acute Care Nursing 6cp
92617 Early Interventions in Acute Care Nursing 6cp
Total 24cp

SMJ06033 Child and Family Health Nursing
92613 Principles of Child and Family Health Nursing 6cp
92614 Child and Family Health Nursing 1 6cp
92615 Child and Family Health Nursing 2 6cp
92620 Family and Community Health Practice 6cp
Total 24cp

SMJ06034 Diabetes Education and Management
92934 Clinical Management of Diabetes 6cp
92845 Primary Health Care 6cp
93006 Clinical Practice (Diabetes) 6cp
015356 Learning in Diabetes Education 6cp
Total 24cp

SMJ07002 Clinical Teaching
Select one of the following: 6cp
92713 Health Breakdown 6cp
CBK90056 Nursing subjects (PG) 6cp
92869 Specialty Clinical Practice 6cp
92848 Facilitation of Clinical Learning 6cp
92607 Education for Practice Development 6cp
Total 24cp

SMJ08037 Operations and Supply Chain
This sub-major provides participants with the opportunity to acquire knowledge of a broad range of theory and applications related to the design, planning and operation of processes and networks needed to deliver products and services to customers. It provides a range of analytical skills and expertise necessary to evaluate business operations needs and to design processes and planning and control systems to deliver these needs. Participants have the opportunity to acquire knowledge in key areas related to the efficient production and supply of goods and services.

Completion requirements
21741 Managing Operations 6cp
21743 Business Excellence 6cp
21745 Service Operations Management 6cp
21797 Strategic Supply Chain Management 6cp
Total 24cp
SMJ08038 Strategic Management
This sub-major provides participants with the opportunity to acquire knowledge of strategy, entrepreneurship, operations and managing for sustainability theory and its practical application necessary for the responsible management of successful, sustainable business operations in the globalised business environment. It provides a comprehensive range of skills and expertise that links traditional, knowledge and state-of-the-art knowledge. Participants gain knowledge of leading-edge strategy concepts and tools for the collection and dissemination of internal and external data. The sub-major links the consulting profession with the processes of strategic management, entrepreneurship and innovation, technology and information systems.

Completion requirements
Select 24 credit points from the following options: 24cp
21797 Strategic Supply Chain Management 6cp
21811 Global Strategic Management 6cp
21832 Managing for Sustainability 6cp
21854 Innovation and Entrepreneurship 6cp
21008 Management Consulting 6cp
21012 Governance and Sustainability 6cp
Total 24cp

SMJ08066 Human Resources Management
The Human Resource Management sub-major provides students with the skills, knowledge, and abilities needed to effectively contribute to an organisation’s human resource management (HRM) functions as part of a broader management role. The sub-major introduces students to the frameworks governing and influencing HRM and aims to develop an understanding of HRM as applied in Australian and international contexts. The sub-major develops students’ critical analysis skills, understanding of the role of communication and information technology and appreciation of ethical issues in HRM through the study of HRM structures, systems and processes as well as strategic approaches to the field of HRM.

Completion requirements
21720 Human Resource Management 6cp
21724 Strategic Human Resource Management 6cp
21760 Performance and Talent Management 6cp
21833 International Human Resources Management 6cp
Total 24cp

SMJ08071 Arts Management
The Arts Management sub-major provides students with the opportunity to acquire knowledge of the arts and cultural industries, how they are structured and managed. The sub-major enables students to acquire skills applicable for arts and cultural professional purposes. It provides a comprehensive range of skills and expertise expected of management professionals in the performing, visual, digital media, literary, entertainment and other cultural industries. Students acquire knowledge in the areas of arts management and the experience economy through learning strategies that cover contemporary case study analysis, theory and applications. By the end of the sub-major they are able to analyse contemporary challenges and issues of this sector; provide solutions to problems through developing strategic plans based on arts and cultural case studies; apply management theories and concepts and decision-making skills in the context of specific arts and cultural case studies; and propose solutions to the management of arts facilities.

Completion requirements
27753 Arts and Cultural Industries 6cp
27755 Arts Organisations and Management 6cp
27763 Arts and Cultural Policy 6cp
27717 Venue and Facility Management 6cp
Total 24cp

SMJ08075 Engineering Management
This sub-major is designed for students who have a technical background or a keen interest in technology and therefore a strong alignment with analytical approaches. The ability to understand both management and technology is increasingly valued by modern enterprises. As society continues to become more and more technology dependent it is clear that those who can effectively manage technology and leading technical professionals are well suited for leadership positions.

Completion requirements
Select 24 credit points from the following options: 24cp
49001 Judgment and Decision Making 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49016 Technology and Innovation Management 6cp
49309 Quality Planning and Analysis 6cp
49306 Quality and Operations Management Systems 6cp
Total 24cp

SMJ08081 Logistics Management
21025 Logistics Management 6cp
21447 Operations Management 6cp
21013 Project Management 6cp
21010 Management Information Systems 6cp
Total 24cp

SMJ08084 Marketing
The Marketing sub-major develops knowledge and skills so that managers understand how implementation of marketing thinking and strategies affects company performance. It develops basic marketing competencies to design and evaluate marketing-oriented strategies.

Completion requirements
24710 Buyer Behaviour 6cp
24720 Marketing Research 6cp
24730 Marketing Strategy 6cp
24750 Marketing Analytics 6cp
Total 24cp

SMJ08086 Project Management
15315 Project Management Principles 6cp
Select 18 credit points from the following options: 18cp
15314 Project Implementation 6cp
15338 Realising Project Benefits 6cp
15330 Program Management 6cp
15346 Governance and Leadership of Project Management 6cp
15313 Project Procurement and Risk Management 6cp
Total 24cp

SMJ08098 Accounting Information Systems
The Accounting Information Systems sub-major provides students with knowledge of and skills in accounting and business information management, ERP, business intelligence, business process management and project management. The sub-major emphasises the benefits of the integration of business processes and data integration and addresses issues in business planning, analysis and control. SAP enterprise and business intelligence solutions are used extensively as demonstration and learning tools. This facilitates students’ understanding of real-world problems in accounting and information management and provides students with functional software skills.

Completion requirements
22708 Accounting Information Systems 6cp
22776 Business Information Systems 6cp
Select 12 credit points from the following options: 12cp
22782 Business Process Integration with ERP 6cp
22783 Business Intelligence 2: Advanced Planning 6cp
22797 Business Intelligence 1: Advanced Analysis 6cp
22759 Accounting and ERP 6cp
22766 Assurance for Enterprise Systems 6cp
22877 Business Project Management 6cp
Total 24cp

SMJ08109 Management Consulting
This sub-major enables students to acquire a critical and theoretical knowledge of the perspectives and approaches to management consulting both nationally and internationally. Students have the opportunity to develop an understanding of a range of emerging fields of interest in management consulting including knowledge management, sustainable enterprise and innovation. Where a subject overlaps with one in another major or sub-major, students are required to substitute the overlapping subject with another Faculty of Business subject.
Anti-requisite: MAJ08046 Extended Management, MAJ08438 Management.

639
### SMJ08111 Marketing Research
This sub-major extends and develops research, analytical and interpretive skills that allow marketing analysts and managers carry out and evaluate practical and useful marketing research. It deals extensively with marketing design and associated analytical tasks. Students undertaking this sub-major develop skills necessary for careers in analytical or research fields.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>24758</td>
<td>Readings in Marketing</td>
<td>6cp</td>
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<tr>
<td>24750</td>
<td>Marketing Analytics</td>
<td>6cp</td>
</tr>
<tr>
<td>24757</td>
<td>Research Methodology and Data Analysis Tools</td>
<td>6cp</td>
</tr>
<tr>
<td>24759</td>
<td>Research Design and Data Collection Tools</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### SMJ08116 Financial Reporting

The Financial Reporting sub-major is designed for Bachelor of Business students who do not have an accounting major but wish to gain a detailed working knowledge of financial reporting including the preparation and analysis of statutory financial reports.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22522</td>
<td>Assurance Services and Audit</td>
<td>6cp</td>
</tr>
<tr>
<td>22319</td>
<td>Financial Statement Analysis (Capstone)</td>
<td>6cp</td>
</tr>
<tr>
<td>22320</td>
<td>Accounting for Business Combinations</td>
<td>6cp</td>
</tr>
<tr>
<td>22420</td>
<td>Accounting Standards and Regulations</td>
<td>6cp</td>
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<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

### SMJ08117 International Accounting

The International Accounting sub-major introduces students to a range of international issues, focusing on the comprehensive development of national accounting systems, international accounting standards and transnational reporting issues.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22240</td>
<td>International Accounting</td>
<td>6cp</td>
</tr>
<tr>
<td>22309</td>
<td>Accounting for Overseas Transactions</td>
<td>6cp</td>
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<td>Select 12 credit points from the following options:</td>
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<tr>
<td>79603</td>
<td>International Business Transactions and the Law</td>
<td>6cp</td>
</tr>
<tr>
<td>25421</td>
<td>International Financial Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21591</td>
<td>Transnational Management</td>
<td>6cp</td>
</tr>
<tr>
<td>24220</td>
<td>International Marketing</td>
<td>6cp</td>
</tr>
<tr>
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<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

### SMJ08120 Small Business Accounting

The sub-major in Small Business Accounting provides students enrolled in any major within the Bachelor of Business with knowledge and skills required for a compliant and successful start-up and operation of small and medium-sized enterprises (SMEs). It covers a wide range of topics including business planning, financial and managerial reporting, accounting information systems, accountability and compliance and other legal, marketing and accounting issues for SMEs.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22566</td>
<td>Small Business Management and Accounting</td>
<td>6cp</td>
</tr>
<tr>
<td>22567</td>
<td>Planning and Control for Small Business Enterprises</td>
<td>6cp</td>
</tr>
<tr>
<td>22515</td>
<td>Computer-based Accounting</td>
<td>6cp</td>
</tr>
<tr>
<td>22573</td>
<td>Accountability of Small Business Enterprises</td>
<td>6cp</td>
</tr>
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<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

### SMJ08123 Finance

This sub-major introduces students to the foundation knowledge of finance theory and analytical techniques for financial decision-making in a dynamic operating environment. Students gain an understanding of the financial system, investment analysis and corporate finance, and the application of quantitative techniques in finance.

**Anti-requisites:** MAJ08060 Extended Finance, MAJ08440 Finance

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22556</td>
<td>The Financial System</td>
<td>6cp</td>
</tr>
<tr>
<td>22562</td>
<td>Quantitative Business Analysis</td>
<td>6cp</td>
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<td>22503</td>
<td>Investment Analysis</td>
<td>6cp</td>
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<td>Select 6 credit points from the following options:</td>
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<tr>
<td>22557</td>
<td>Corporate Finance: Theory and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>22502</td>
<td>Ethics in Finance</td>
<td>6cp</td>
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<tr>
<td>22520</td>
<td>Derivative Securities</td>
<td>6cp</td>
</tr>
<tr>
<td>22574</td>
<td>Company Law and Management</td>
<td>6cp</td>
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<tr>
<td>22575</td>
<td>Investment Banking</td>
<td>6cp</td>
</tr>
<tr>
<td>22576</td>
<td>Wealth Management</td>
<td>6cp</td>
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<td><strong>Total 24cp</strong></td>
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</tbody>
</table>

### SMJ08126 Sport Management

The Sport Management sub-major introduces students to the increasingly dynamic and specialist context in which sport is played, organised and managed. The issues identified in this sub-major provide students with a wealth of knowledge concerning the globalisation of sport and the business prospects arising from the sporting genre.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22707</td>
<td>Sport Management</td>
<td>6cp</td>
</tr>
<tr>
<td>22752</td>
<td>The Sport Industry</td>
<td>6cp</td>
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<tr>
<td>22761</td>
<td>Sport Marketing</td>
<td>6cp</td>
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<tr>
<td>22753</td>
<td>Sport in the Global Marketplace</td>
<td>6cp</td>
</tr>
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<td></td>
<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

### SMJ08127 Tourism Management

The Tourism Management sub-major introduces students to tourism and examines the functioning of the tourism industry. Elective choices allow students to develop a further understanding of the tourism experience as well as management, marketing and planning theories and practices within the context of specific tourism industry sectors.

**Completion requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>22718</td>
<td>Dimensions of Tourism</td>
<td>6cp</td>
</tr>
<tr>
<td>227648</td>
<td>The Tourism Business</td>
<td>6cp</td>
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<tr>
<td></td>
<td>Select 12 credit points from the following options:</td>
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</tr>
<tr>
<td>22716</td>
<td>e-Marketing and Management of Services</td>
<td>6cp</td>
</tr>
<tr>
<td>22741</td>
<td>Sport Tourism</td>
<td>6cp</td>
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<tr>
<td>22785</td>
<td>The Tourist Experience</td>
<td>6cp</td>
</tr>
<tr>
<td>22734</td>
<td>Strategic Management in Leisure, Sport and Tourism Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>22737</td>
<td>Tourism and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>22736</td>
<td>Tour Operator and Wholesaling</td>
<td>6cp</td>
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<tr>
<td>227347</td>
<td>Hotel Management</td>
<td>6cp</td>
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<tr>
<td>227348</td>
<td>Critical Issues in Global Tourism</td>
<td>6cp</td>
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<tr>
<td>227350</td>
<td>Professional Internship (Capstone)</td>
<td>6cp</td>
</tr>
<tr>
<td>227523</td>
<td>Planning for Sustainable Destinations</td>
<td>6cp</td>
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<tr>
<td>227642</td>
<td>Tourism Marketing</td>
<td>6cp</td>
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<tr>
<td>227647</td>
<td>Airlines and Transportation Management</td>
<td>6cp</td>
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<tr>
<td>227703</td>
<td>Event Management</td>
<td>6cp</td>
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<td><strong>Total 24cp</strong></td>
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</tbody>
</table>

### SMJ08128 Human Resource Management

The Human Resource Management sub-major is designed for students who are majoring in another functional major or degree. This sub-major prepares students whose business management career requires a broad understanding of the challenges in people management (including human resource management and employee relations management) in the business environment.

**Anti-requisite:** MAJ08446 Human Resource Management.
SMJ08129 International Management

The International Management sub-major develops students' critical and analytical skills in relation to international and intercultural environments. Students develop a range of skills, insights and sensitivity that enables them to operate effectively in business and professional practice across international and intercultural boundaries. Where a subject overlaps with one in another major or sub-major, students are required to substitute the overlapping subject with another Faculty of Business subject.

Anti-requisite: MAJ08046 Extended Management, MAJ08438 Management

Completion requirements

Select 24 credit points from the following options: 24cp

21511 Global Operations and Supply Chain Management 6cp
24220 International Marketing 6cp
21595 International Management Field Study 6cp
21510 The Global Context of Management 6cp
21591 Transnational Management 6cp
22240 International Accounting 6cp

Total 24cp

SMJ08130 Management

The Management sub-major is available to students who are not undertaking the Management major. It focuses on introducing students to the range of foundation skills and knowledge necessary for effective management practice. Students also gain an understanding of organisational design and change, and the management of the value chain. Where a subject overlaps with one in another major or sub-major, students are required to substitute the overlapping subject with another Faculty of Business subject.


Completion requirements

Select 18 credit points from the following options: 18cp

21510 The Global Context of Management 6cp
21513 Business Ethics and Sustainability 6cp
21440 Management Skills 6cp
21595 International Management Field Study 6cp
21311 Global Operations and Supply Chain Management 6cp
21512 Understanding Organisations: Theory and Practice 6cp

Total 24cp

SMJ08131 Advanced Advertising

The Advanced Advertising sub-major provides specialised study in advertising management, developing hands-on experience in applying the principles and best practices that underlie contemporary advertising. This sub-major is offered at the City campus and is only available to Bachelor of Business students undertaking the MAJ08441 Marketing major.

Anti-requisite: MAJ08063 Extended Marketing, MAJ08116 Marketing Communication.

Completion requirements

Select 18 credit points from the following options: 18cp

24510 Advertising Research 6cp
59333 Advertising Strategies 6cp
59330 Advertising Practice 6cp
24207 Media Planning 6cp

Total 24cp

SMJ08132 Marketing Research

This sub-major develops and extends research, analytical and interpretive skills that allow marketing analysts and managers to carry out and evaluate practical and useful marketing research. It deals extensively with research design and associated analytical tasks. Students undertaking this sub-major develop skills necessary for careers in analytical or research fields.

It is only available to Bachelor of Business students undertaking the MAJ08441 Marketing major or MAJ08116 Marketing Communication major or SMJ08138 Marketing sub-major.

Anti-requisite: MAJ08063 Extended Marketing.

Completion requirements

24510 Advertising Research 6cp
24331 Marketing Analytics and Decisions 6cp
24902 Research Methodology and Data Analysis Techniques 6cp
24908 Research Design and Data Collection Techniques 6cp

Total 24cp

SMJ08137 Advertising

The Advertising sub-major provides students with an introduction to the area of advertising and promotions management, focusing on customer behaviour and management of marketing communications activities. This sub-major is offered at City campus and partially at Kuring-gai campus.

Anti-requisite: MAJ08063 Extended Marketing, MAJ08116 Marketing Communication, MAJ08441 Marketing.

Completion requirements

24202 Consumer Behaviour 6cp
24415 Marketing Planning and Strategy 6cp
24309 Marketing Research 6cp
24510 Advertising Research 6cp

Total 24cp

SMJ08138 Marketing

The Marketing sub-major develops knowledge and skills so that managers understand how implementation of marketing thinking and strategies affects company performance. It develops basic marketing competencies to design and evaluate marketing-oriented strategies.

Anti-requisite: MAJ08063 Extended Marketing, MAJ08116 Marketing Communication, MAJ08441 Marketing.

Completion requirements

24202 Consumer Behaviour 6cp
24415 Marketing Planning and Strategy 6cp
24309 Marketing Research 6cp
Select 6 credit points from the following options: 6cp
24331 Marketing Analytics and Decisions 6cp
24222 Marketing Channels 6cp
24223 New Product Marketing 6cp
2424 Pricing Strategies and Tactics 6cp
2410 Integrated Marketing Communications 6cp
24205 Business-to-Business Marketing 6cp
24220 International Marketing 6cp
24306 Services Marketing 6cp

Total 24cp

SMJ08139 International Business Studies

This sub-major provides an opportunity for students to study business subjects abroad. In doing so, they develop an international awareness and acquire analytical skills that enhance their professional knowledge within a global context.

Students are required to complete this sub-major on exchange at an approved overseas institution. Students must undertake the equivalent of 24 credit points of UTS: Business subjects at the overseas institution, and must also seek approval from the Faculty of Business prior to undertaking the sub-major.

Completion requirements

CBK90166 Electives (International Business Studies sub-major) 24cp
Total 24cp
SMJ08141 Human Resource Development

This sub-major fosters both formal and informal learning opportunities in the workplace, and provides a basic understanding of human resource development issues and practices. This sub-major is offered at City campus on demand, and is graded on a Pass/Fail basis only.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>013097</td>
<td>Human Resource Development in Organisations</td>
<td>6cp</td>
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<tr>
<td>013954</td>
<td>Program Design</td>
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<tr>
<td>Select 12 credit points from the following options:</td>
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<tr>
<td>013972</td>
<td>Organisational Learning</td>
<td>6cp</td>
</tr>
<tr>
<td>013974</td>
<td>Professional Practice I Human Resource Development</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
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</tr>
</tbody>
</table>

SMJ08147 Finance

The Finance sub-major provides participants with the opportunity to acquire knowledge of finance theory and techniques in the areas of investment and financing decisions and interactions with capital markets. It provides an introduction to the range of skills and expertise expected of employees in the finance function of a firm. Learning strategies that cover both contemporary theory and leading-edge techniques in the practice of financial decision-making are the used in the presentation of the sub major.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>25705</td>
<td>Financial Modelling and Forecasting</td>
<td>6cp</td>
</tr>
<tr>
<td>25721</td>
<td>Investment Management</td>
<td>6cp</td>
</tr>
<tr>
<td>25741</td>
<td>Capital Markets</td>
<td>6cp</td>
</tr>
<tr>
<td>25765</td>
<td>Corporate Finance</td>
<td>6cp</td>
</tr>
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</tr>
</tbody>
</table>

SMJ08148 International Business

The International Business sub-major addresses the impacts of globalisation on the world of business. It covers the competencies, skills and knowledge that are applicable to several functional areas of the internationalising firm that is attempting to both anticipate and respond to these impacts.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>21012</td>
<td>Governance and Sustainability</td>
<td>6cp</td>
</tr>
<tr>
<td>21717</td>
<td>International Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21811</td>
<td>Global Strategic Management</td>
<td>6cp</td>
</tr>
<tr>
<td>21833</td>
<td>International Human Resources Management</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
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</tr>
</tbody>
</table>

SMJ08153 Public Relations

This sub-major provides students with a specialisation in communication management within the MBA. It develops an understanding of communication theory and practice and skills in applying these to the business environment. Students explore the contexts for professional communication and develop strategies and products to communicate effectively with their customers, clients, partners and publics. These strategic communication skills equip them for work in a range of organisations and sectors within the business community. Graduates with this sub-major have the opportunity to work as public relations professionals or to incorporate their understanding and skills into their business practices.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>57023</td>
<td>Communicating with Publics</td>
<td>8cp</td>
</tr>
<tr>
<td>57024</td>
<td>Managing Public Communication Strategies</td>
<td>8cp</td>
</tr>
<tr>
<td>57026</td>
<td>Strategic Communication and Negotiation</td>
<td>8cp</td>
</tr>
<tr>
<td>Total 24cp</td>
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</tr>
</tbody>
</table>

SMJ08155 Sport Management

The Sport Management sub-major provides students with the opportunity to acquire knowledge of the sport industry, how it is structured and managed at different levels, from grassroots, community-focused sport, through to elite-level, commercially oriented sport. The sub-major enables students to acquire skills applicable for the professional management of sport, and for conceiving policies and strategies underpinning this multi-faceted role.

The sub-major provides a comprehensive range of skills and expertise expected of management professionals in the sport industry and cognate areas, such as events management and tourism management. Students acquire knowledge in the areas of sport management and the experience economy through learning strategies that cover contemporary case study analysis, theory and practical applications. By the end of the sub-major they are able to analyse contemporary challenges and issues of the sport sector; provide solutions to problems through developing strategic plans based on sport and event studies; apply management theories, concepts and decision-making skills in the context of the sport industry; and propose solutions to the management of problematic issues in sport, such as performance-enhancing drugs, off-field player behaviour, and career transition for elite athletes.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>27715</td>
<td>Sport Business</td>
<td>6cp</td>
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<tr>
<td>27721</td>
<td>Sport Globalisation</td>
<td>6cp</td>
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<tr>
<td>Select 6 credit points from the following options:</td>
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</tr>
<tr>
<td>27717</td>
<td>Venue and Facility Management</td>
<td>6cp</td>
</tr>
<tr>
<td>27729</td>
<td>Legal Issues for the Experience and Not-for-Profit Industries</td>
<td>6cp</td>
</tr>
<tr>
<td>27733</td>
<td>The Experience Economy</td>
<td>6cp</td>
</tr>
<tr>
<td>27734</td>
<td>Marketing for the Experience Industries</td>
<td>6cp</td>
</tr>
<tr>
<td>27778</td>
<td>Innovative Services Management</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
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</tbody>
</table>

SMJ08156 Tourism Management

The Tourism Management sub-major provides students with the opportunity to acquire knowledge of tourism as an activity and its management by the tourism industry, government and other stakeholders. It provides students with an understanding of the various elements of tourism: the tourist, the tourism industry and the various environments in which tourism operates. It focuses on the structure, functions and sustainable management of tourism as part of the ‘experience economy’. The sub-major enables students to develop critical, interpretive and problem-solving skills expected of professionals in the management of tourism.

Students acquire knowledge in tourism management through learning strategies that cover theory, contemporary Australian and international case study analysis, and applications. They learn to analyse contemporary challenges and issues of this sector; apply management theories and empirical studies to various travel and tourism industry settings and management structures; formulate management strategies and perform management functions appropriate to the travel and tourism industry.

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>27700</td>
<td>Sustainable Tourism Management</td>
<td>6cp</td>
</tr>
<tr>
<td>27735</td>
<td>Tourism and the Industry</td>
<td>6cp</td>
</tr>
<tr>
<td>27706</td>
<td>Managing Tourism Services</td>
<td>6cp</td>
</tr>
<tr>
<td>27767</td>
<td>Tourist Behaviour</td>
<td>6cp</td>
</tr>
<tr>
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</tbody>
</table>

SMJ08157 Business Accounting

This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148), Bachelor of Arts in Architecture (C10004), Bachelor of Property Economics (C10007), Bachelor of Design in Industrial Design (C10053), Bachelor of Design in Fashion and Textiles (C10055), Bachelor of Design in Interior Design (C10057), Bachelor of Design in Visual Communication (C10059), and Bachelor of Construction (C10214).

Completion requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
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<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
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<tr>
<td>Select 12 credit points from the following options:</td>
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<tr>
<td>22321</td>
<td>Cost Management Systems</td>
<td>6cp</td>
</tr>
<tr>
<td>22240</td>
<td>International Accounting</td>
<td>6cp</td>
</tr>
<tr>
<td>22320</td>
<td>Accounting for Business Combinations</td>
<td>6cp</td>
</tr>
<tr>
<td>22420</td>
<td>Accounting Standards and Regulations</td>
<td>6cp</td>
</tr>
<tr>
<td>22610</td>
<td>Accounting for Insolvency</td>
<td>6cp</td>
</tr>
<tr>
<td>Total 24cp</td>
<td></td>
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</tr>
</tbody>
</table>
SMJ08159 Employment Relations
This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148).

Completion requirements
21510 The Global Context of Management 6cp
21129 Managing People and Organisations 6cp
21591 Transnational Management 6cp
Select 6 credit points from the following options: 6cp
21630 Global Strategic Management 6cp
21511 Global Operations and Supply Chain Management 6cp
Total 24cp

SMJ08160 International Management
This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148).

Completion requirements
21511 Global Operations and Supply Chain Management 6cp
21129 Managing People and Organisations 6cp
21591 Transnational Management 6cp
21221 Organisational Structure and Change 6cp
Total 24cp

SMJ08163 Internet Business Technology
31242 Advanced Internet Programming 6cp
Select 12 credit points from the following options: 12cp
31338 Network Servers 6cp
31777 Human-Computer Interaction 6cp
31100 Enterprise Development with .NET 6cp
31030 Project 6cp
31285 Mobile Applications Development 6cp
31748 Programming on the Internet 6cp
31259 Intelligent Agents 6cp
Total 24cp

SMJ08181 Introductory Finance
This sub-major is only available to students in the Bachelor of Science in Mathematics (C10154).

Completion requirements
25300 Fundamentals of Business Finance 6cp
25556 The Financial System 6cp
22107 Accounting for Business Decisions A 6cp
25303 Investment Analysis 6cp
Total 24cp

SMJ08185 Finance and Economics
Free choice of electives.

SMJ08188 Accounting for Small Business
This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148).

Completion requirements
22107 Accounting for Business Decisions A 6cp
22566 Small Business Management and Accounting 6cp
Select 12 credit points from the following options: 12cp
22567 Planning and Control for Small Business Enterprises 6cp
22515 Computer-based Accounting 6cp
22309 Accounting for Overseas Transactions 6cp
22240 International Accounting 6cp
22610 Accounting for Insolvency 6cp
Total 24cp

SMJ08192 Finance
Free choice of electives.

SMJ08193 International Business
218114 Global Strategic Management 6cp
217844 Global Business Competitive Intelligence 6cp
247384 International Marketing Management 6cp
227774 International Accounting 6cp
Total 24cp

SMJ08194 Clinical Management
92917 Using Health Care Data for Decision Making 6cp
92887 Organisational Management in Health Care 6cp
92902 Management for Clinicians 6cp
92606 Issues in Australian Health Services 6cp
Total 24cp

SMJ08195 Management Reporting
The Management Reporting sub-major is designed for Bachelor of Business students who do not have an accounting major but wish to gain a detailed working knowledge of management accounting reporting including costing, controlling and management decision-making.
Anti-requisite: MAJ08437 Accounting

Completion requirements
22321 Cost Management Systems 6cp
22421 Management Decisions and Control 6cp
22515 Computer-based Accounting 6cp
22566 Small Business Management and Accounting 6cp
Total 24cp

SMJ08196 Innovation
21227 Innovation and Entrepreneurship 6cp
22107 Accounting for Business Decisions A 6cp
25300 Fundamentals of Business Finance 6cp
Select 12 credit points from the following options: 12cp
21129 Managing People and Organisations 6cp
24108 Marketing Foundations 6cp
48080 Introduction to Innovation 6cp
Total 24cp

SMJ08197 Marketing Principles
This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148), Bachelor of Arts in Architecture (C10004), Bachelor of Property Economics (C10007), Bachelor of Design in Industrial Design (C10053), Bachelor of Design in Fashion and Textiles (C10055), Bachelor of Design in Interior Design (C10057), Bachelor of Design in Visual Communication (C10059), and Bachelor of Construction (C10214).

Completion requirements
24108 Marketing Foundations 6cp
24202 Consumer Behaviour 6cp
Select 12 credit points from the following options: 12cp
24220 International Marketing 6cp
24105 Business-to-Business Marketing 6cp
24306 Services Marketing 6cp
Total 24cp

SMJ08198 Advertising Principles
This sub-major is only available to students in the Bachelor of Science in Information Technology (C10148), Bachelor of Arts in Architecture (C10004), Bachelor of Property Economics (C10007), Bachelor of Design in Industrial Design (C10053), Bachelor of Design in Fashion and Textiles (C10055), Bachelor of Design in Interior Design (C10057), Bachelor of Design in Visual Communication (C10059), and Bachelor of Construction (C10214).

Completion requirements
24108 Marketing Foundations 6cp
24202 Consumer Behaviour 6cp
24210 Integrated Marketing Communications 6cp
59330 Advertising Practice 6cp
Total 24cp

SMJ08203 Event Management
This sub-major introduces students to the increasingly dynamic and specialist contexts in which events are organised and managed. The strong industry links provide an ideal platform for knowledge and professional development.

Completion requirements
27703 Event Management 6cp
27345 Creating Event Experiences 6cp
27194 Event Sponsorship and Revenue 6cp
27192 Event Impacts and Legacies 6cp
Total 24cp
SMJ08204 Strategic Marketing

This sub-major develops competencies that allow decision-makers, such as marketing managers and business unit managers as well as general managers and chief executives, to develop, implement and evaluate marketing-oriented strategies that allow companies to compete successfully in environments in which they make decisions about business models that are affected by business-to-business, international and services contexts. It develops senior management competencies that enable organisations to implement strategic marketing decisions in a cross-functional and integrated manner.

It is only available to Bachelor of Business students undertaking the MAJ08441 Marketing major or MAJ08116 Marketing Communication major or SMJ08138 Marketing sub-major.

Anti-requisite: MAJ08063 Extended Marketing.

Completion requirements

Select 24 credit points from the following options: 24cp
- 24235 Business-to-Business Marketing 6cp
- 24311 Marketing Analytics and Decisions 6cp
- 24220 International Marketing 6cp
- 24306 Services Marketing 6cp
- 24224 Pricing Strategies and Tactics 6cp

Total 24cp

SMJ08205 Strategic Marketing

This sub-major develops competencies that allow decision makers (such as marketing managers and business unit managers as well as general managers and chief executives) to develop, implement and evaluate marketing-oriented strategies that allow companies to compete successfully in environments in which they make decisions about business models that are affected by business-to-business, international and services contexts.

Completion requirements

- 24706 Strategic Services Marketing 6cp
- 24707 Strategic Business Marketing 6cp
- 24738 Strategic International Marketing 6cp
- 24750 Marketing Analytics 6cp

Total 24cp

SMJ08206 Research Methods

- 16262 Honours Research 1 6cp
- 16259 Honours Research 2 6cp
- 16260 Honours Research 3 6cp

Total 24cp

SMJ08208 Management

This sub-major provides participants with the opportunity to develop integrated knowledge and skills for effective change management in a global, decentralised competitive business environment.

Completion requirements

- 21717 International Management 6cp
- 21811 Global Strategic Management 6cp
- 21827 Change Management 6cp
- 21854 Innovation and Entrepreneurship 6cp

Total 24cp

SMJ08209 Community Management

This sub-major provides participants with the opportunity to acquire the knowledge and skills necessary to successfully manage non-profit organisations. It covers the special characteristics of the non-profit sector and the special challenges of managing non-profit organisations. It pays special attention to the variety of ways non-profit organisations develop their financial resources, and to the special body of laws that govern the non-profit sector.

Completion requirements

- 21817 Volunteer Management 6cp
- 21767 Not-for-Profit Sector Theory and Context 6cp
- 21879 Corporate Social Responsibility and Social Impact 6cp
- 21778 Resource Mobilisation 6cp

Total 24cp

SMJ08210 Value Creation in Services

This sub-major prepares students to thrive in a services economy and to advance their individual and collaborative potentials within the framework of a new service science curriculum that examines the configurations of people, technology and business in the context of a service economy. It is aimed at meeting the diverse requirements of the next generation workforce and key capability requirements for value creation, innovation and collaboration in services as endorsed by the Australian government policy paper, Powering Ideas: An Innovation Agenda for the 21st Century.

Completion requirements

- 24706 Strategic Services Marketing 6cp
- 21745 Service Operations Management 6cp
- 27778 Innovative Services Management 6cp
- 27733 The Experience Economy 6cp

Total 24cp

SMJ08211 Public Relations

- 58117 Principles of Public Relations 8cp
- 58128 Strategic Public Relations 8cp
- 58116 The Ecology of Public Communication 8cp

Total 24cp

SMJ08212 Advertising

- 58118 Principles of Advertising 8cp
- 58129 Advertising Campaign Practice 8cp
- 58116 The Ecology of Public Communication 8cp

Total 24cp

SMJ08213 Event Management

This sub-major provides students with knowledge and skills germane to managerial positions within the event management field in Australia and internationally. The areas in which this knowledge and these skills may be developed concern: marketing, risk, project and venue management, event creation, economics, and law. Learning strategies employed in this sub-major focus on linking theory to practice via case study analysis, fieldwork and applied assessments. These learning strategies are intended to enable students to: analyse contemporary challenges and issues pertaining to the public and corporate event field; apply management theories, concepts and decision-making skills in the context of specific event management related issues or problems; and project manage events of varying scale.

Completion requirements

- 27726 Event Concepts and Contexts 6cp
- 27727 Event Creation Workshop 6cp
- 27765 Event Management 6cp
- Select 6 credit points from the following options: 6cp
- 27717 Venue and Facility Management 6cp
- 27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
- 27733 The Experience Economy 6cp
- 27734 Marketing for the Experience Industries 6cp
- 27737 Event Risk Management 6cp

Total 24cp

SMJ08214 Financial Planning

The Financial Planning sub-major equips graduates with both theoretical and practical competencies required to participate in the changing financial planning industry. Graduates gain an understanding of the principal elements of the personal financial planning process, the financial system and the legal issues associated in preparing a financial plan. They acquire the technical and analytical skills to undertake general personal financial planning advice.

This sub-major is only available to Bachelor of Business students undertaking a major in accounting or finance.

As part of the Financial Planning sub-major, students undertaking a major in accounting should select 25556 The Financial System; students undertaking a major in finance should select 79017 Taxation Law.

Completion requirements

- 79026 Estate Planning (UG) 6cp
- 79027 Retirement Planning (UG) 6cp
- 22502 Financial Planning in Australia 6cp
- Select 6 credit points from the following options: 6cp
- 25556 The Financial System 6cp
- 79017 Taxation Law 6cp

Total 24cp
SMJ08215 Financial Services

The operation of the financial services sector is critical to the operation of the economy. Consequently, an understanding of how information is generated and used, together with how the financial markets operate, is important. The subjects in the sub-major provide students with essential professional skills in how financial reports are prepared, how financial information may be used, and how the financial system operates.

The Accounting stream is only available to Finance major or Extended Finance major students; the Finance stream is only available to Accounting major students.

This major is not offered to students enrolled in: SMJ08116 Financial Reporting, SMJ08123 Finance, or MAJ08068 Financial Services.

**Completion requirements**

Select 24 credit points from the following options: 24cp

- SMJ00704 Accounting stream 24cp
- SMJ00705 Finance stream 24cp

Total 24cp

SMJ08216 Business

Select 24 credit points from the following options: 24cp

- 22747 Accounting for Managerial Decisions 6cp
- 25742 Financial Management 6cp
- 21827 Change Management 6cp
- 21797 Strategic Supply Chain Management 6cp
- 21877 Strategic Procurement 6cp

Total 24cp

SMJ09021 Dispute Resolution

Select 24 credit points from the following options: 24cp

- 77745 Negotiation 6cp
- 77746 Advanced Mediation 6cp
- 77761 Dispute Resolution in Commerce 6cp
- 79771 Dispute Resolution 6cp
- 77752 Commercial Arbitration (Domestic) 6cp
- 77850 Psychology and Dispute Resolution 6cp
- 77867 Workplace Dispute Resolution 6cp
- 78029 Mediation Practice 6cp

Total 24cp

SMJ09028 Economics

Businesses operate within the economy and many of the prospects and problems faced by a business are influenced or determined by the economy. Consequently, many business leaders emphasise the need for business managers to understand the economy and its impact on business. The subjects in this sub-major provide students with the professional skills, knowledge and understanding of the economic environment within which business operates.

Anti-requisite: MAJ09402 Extended Economics, MAJ09209 Economics

**Completion requirements**

Select 24 credit points from the following options: 24cp

- 23592 Game Theory 6cp
- 23570 Economics of the Environment 6cp
- 23517 Introductory Econometrics 6cp
- 23022 Public Economics 6cp
- 23592 Game Theory 6cp

Total 24cp

SMJ09030 Business Law

This sub-major introduces students to legal issues that impact on the business sector. Building on 70110 Introduction to Law, it gives students the opportunity to develop a better understanding of intricate legal issues, facilitating the planning of current and future commercial strategies.

**Completion requirements**

Select 18 credit points from the following options: 18cp

- 70110 Introduction to Law 6cp
- 79006 Intellectual Property Commercialisation 6cp
- 79011 Marketing Law 6cp
- 79013 Industrial and Labour Law 6cp
- 79014 Applied Company Law 6cp

Total 24cp

SMJ09032 Foundations in Law

This sub-major is for students enrolled in the Bachelor of Business who are considering transferring between the different degree programs or intending to undertake law studies as a second degree. It provides students with the key legal knowledge of a lawyer and has recognition as substantive law subjects in any law degree. This sub-major is offered at City campus on demand.

**Completion requirements**

- 70211 Contracts 8cp
- 70331 Torts 8cp
- 70317 Real Property 8cp

Total 24cp

SMJ09033 Taxation Law

This sub-major offers an integrated sequence of subjects enabling students to specialise in this important area of law, applicable to the business and public sectors of Australia and its international relationships. Taxation is the ultimate interface of law, accounting and business enterprises, and always requires specialist knowledge.

**Completion requirements**

Select 12 credit points from the following options: 12cp

- 790018 Advanced Commercial Law 6cp
- 790026 Estate Planning (UG) 6cp
- 790027 Retirement Planning (UG) 6cp
- 79021 International Aspects of Australian Taxation Law 6cp
- 79022 GST and other Indirect Taxes 6cp
- 79606 Advanced Taxation Law 6cp

Total 24cp

SMJ09034 International Studies

This sub-major uses a focus on society, politics, economics and culture as an introduction to three countries or parts of the world that play a crucial role in Australia’s business environment. The subjects in this sub-major are only offered in Spring semester.

Note that Contemporary France, Contemporary Germany, Contemporary Italy, Contemporary Spain and Contemporary Switzerland are all offered at the same time and day in Spring semester; students are thus only able to enrol in one of these subjects in a given semester.

**Completion requirements**

Select 24 credit points from the following options: 24cp

- 97611 Contemporary China 8cp
- 976211 Contemporary Japan 8cp
- 976502 Contemporary Latin(o) Americas 8cp
- 976411 Contemporary France 8cp
- 976421 Contemporary Germany 8cp
- 976431 Contemporary Italy 8cp
- 976451 Contemporary Spain 8cp
- 976404 Contemporary Switzerland 8cp

Total 24cp

SMJ09035 Language other than English

The LOTE sub-major enables students to develop communicative competence in a language other than English. Three consecutive 8 credit point subjects are taken from one of the following language programs: Chinese, French, German, Italian, Japanese or Spanish. Students require three semesters to complete this sub-major and are advised to start in Autumn of their second year, as not all levels of language and culture are offered every semester.
Completion requirements
Select 24 credit points from the following options: 24cp
SMJ09042 Communications and Information
Free choice of electives.
SMJ09043 Information
Free choice of electives.
SMJ09045 Information Technology Law
79203 Business Law and Ethics 6cp
Select 18 credit points from the following options: 18cp
79006 Intellectual Property Commercialisation 6cp
79018 Advanced Commercial Law 6cp
Total 24cp
SMJ09046 International Trade Law
Select 24 credit points from the following options: 24cp
77716 International Trade Law 6cp
77724 International Banking and Finance Law 6cp
Select one of the following: 6cp
77751 International Commercial Arbitration 6cp
77783 International Commercial Dispute Resolution 6cp
77935 International Business Law 6cp
77976 World Trade Organisation Law and Practice 6cp
77885 Legal Process and Legal Research 6cp
Total 24cp
SMJ09048 Transnational Studies
This sub-major focuses on the global arena. How can we understand contemporary global politics? How did our current world system come to be this way? How are ideas and news about the world circulated and consumed? The three subjects in this sub-major combine politics and international relations, cultural history, media studies and other disciplines to investigate how people, nations, governments, empires, and the media have created and re-created the global world we live in.
The first subject introduces students to the global politics of power, through a variety of lenses, from ‘above’ and from ‘below’. Students then analyse the networks of colonial expansion and the resistance to it, with particular attention to gendered, intimate everyday relationships. These are related directly to the ‘post-colonial’ world, where power is no longer centred on imperial heartlands. In the third subject students explore the phenomenon of transnational media as it builds on new technologies and adapts the old, both as media empire and as citizen media, or social media. Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html
Completion requirements
58222 Global Politics from Above and Below 8cp
58316 Sex, Race and Empire 8cp
58317 Transnational Media 8cp
Total 24cp
SMJ09049 Reading Australia
This sub-major is an exploration through time and place, literature and writing, film and images of what ‘Australia’ is. It requires students to rethink what they call ‘an Australian’, and reconsider where the boundaries of Australia arise and produce the possibilities for new Australians to exist. In all the subjects students are asked to ‘read’ Australia in new ways: read it as a particular result of contingently recorded histories and arbitrarily mythologised places. Students are also asked to question Australia as a place that has produced workable myths like the ‘outback’ and ‘the beach’ and think about why Crocodile Dundee and Mad Max never could live in Glebe and why ‘multicultural Australia’ doesn’t quite capture the global and inter-nation flows that have helped produce Australia. In addition, students are asked to consider the critical and creative ways in which something as persuasive and pervasive as Australia makes and remakes itself through the circulations of particular knowledges.
The subjects involve the study of the many modes of knowledge production (electronic, filmic, textual) but also the many interdisciplinary forms that encourages looking at pasts and places and categories like literature and film in new and exciting ways. Students produce work in a variety of forms including essays, archives, fiction and images.
Students enrolling in this sub-major need to have a willingness to have their answers questioned; in doing so they should discover that at least one Australia they learn about is a place they have never been. Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

Completion requirements

SMJ09050 Environmental Studies

It seems humankind want to live sustainably. In opinion surveys, environmental concerns top the list of most important issues. Environmental perspectives have risen up the agenda across key fields of policy research and social change, new media and reportage, creative writing and the ‘new humanisms’, requiring practitioners in these fields to develop critical knowledge of the sciences and technologies at stake. Whether considering leaders of nations and corporations, environmentalist and oppositional movements, or Indigenous and other marginalised peoples, all have real issues at stake and demand voices in the debates.

The sub-major provides the scope to explore these fields in some depth. It begins with an introduction to the politics and science of climate change. Students then investigate interactions between the life sciences and the social sciences; what drives ecological degradation and what is claimed to take us beyond it into a future of ‘post-nature’ driven by biotechnologies and global ecological risk management. In the final subject students investigate environmental values, exploring different cultural expressions, changing meanings of nature, and their relationship to it. Ranging across the political, the economic, the cultural and the technological, the sub-major offers a solid grounding in this vital arena.

Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

Completion requirements

SMJ09051 Bodies, Genders, Rights

This sub-major draws on social, political and cultural theory to interrogate key features of the world from the life worlds of individual bodies and embodied experience to the ways in which these worlds are in turn shaped by political and social power structures that effect relations between peoples and between those peoples and states at the international and global level. The sub-major offers foundational intellectual tools to help students reflect widely and deeply about the nature of power, relations between peoples, and between states and peoples across time and space.

The sub-major begins with a sustained examination of the ‘matter’ of the body, its literal fleshiness and its troubling tendency to be naturalised, despite being a key site of social, cultural, historical and political contestation. Students think through what the body is and how it is that some bodies come to matter more than others. Thus, an engagement with the seemingly ‘micro’ matter of the body lays the groundwork for the following two subjects which focus in turn explicitly on the ‘macro’ issues of gender and human rights.

The second subject provides the opportunity to undertake a rigorous analysis of the notions of sex, gender and sexuality in a range of cultural and social contexts. The processes and mechanisms that construct and institutionalise gender are considered in a variety of contexts. How hierarchies of gender and sexuality are implicated in all aspects of social life is explored. In particular students interrogate the ways in which current issues troubling relations between peoples and states such as globalisation, questions of ethnic and cultural difference, citizenship and environmental stress can be understood as ‘gendered’. Students also question practices of social exclusion and inclusion (an underpinning theme of the sub-major as a whole) based on gender and the ways in which gender in turn structures relations not only between peoples but between nations and states.

The final subject builds on the themes developed in the previous subjects to examine the way in which relations, and particularly human rights, are central to the ways in which relations between individuals, groups of peoples, nations and states are configured in the 21st century. From this standpoint, key issues and debates concerning the history and contemporary politics of human rights in the context of state formation (sovereign territorialisation) and globalisation and de-territorialisation are examined.

Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

Completion requirements

SMJ09052 Aboriginal Studies

The three subjects in this sub-major explore Australian Aboriginal culture and society, politics and history, and the legal dimensions of Indigenous rights. Drawing upon a range of disciplinary approaches (anthropology, politics, sociology and history) students explore how these traditions have produced particular knowledge about Aboriginal people and how Aboriginal ways of knowing and being, including relationships to land and water, kinship networks and society, have been interpreted as well as contested these intellectual traditions.

In the first subject, students consider Aboriginal cultural and social practices and reflect upon the mechanisms that exist to maintain and reproduce culture in a modern post-colonial nation state. In the second subject, students are introduced to the kinds of demands Aboriginal people have made of the colonial state and how the state has sought to manage and rule Aboriginal people’s lives. In the third subject, students examine the legal bases for the protection of Indigenous rights, including land rights and native title.

The three subjects seek to be intellectually challenging, provide students with a depth of insight and knowledge to deal meaningfully with Aboriginal people, engage in advocacy and debates on Aboriginal issues and understand the wider international contexts in which these issues circulate. Students who complete this sub-major are equipped to make a significant contribution to the Aboriginal public policy domain and community.

Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

Completion requirements

SMJ09053 Social Inquiry

This major is only available to students enrolled in the Bachelor of Science in Environmental Forensics (C10227) (see page 233), or the Bachelor of Science (C10242) (see page 241) in the majors Environmental Biology (MAJ01106) or Environmental Forensics (MAJ01108).

Completion requirements

SMJ09054 Information and Media

SMJ09055 Marine Biology

This major is only available to students enrolled in the Bachelor of Science in Environmental Forensics (C10227) see page 233), or the Bachelor of Science (C10242) (see page 241) in the majors Environmental Biology (MAJ01106) or Environmental Forensics (MAJ01108).

Completion requirements

66513 Marine Geosciences 6cp
91118 Fisheries Resources 6cp
91126 Coral Reef Ecosystems 6cp

Select one of the following:
91157 Marine Communities 6cp
91156 Marine Primary Producers 6cp

Total 24cp
SMJ09056 Environmental Protection
This major is only available to students enrolled in the Bachelor of Science in Marine Biology (C10228) (see page 234), or the Bachelor of Science in Marine Biology (C10242) (see page 241) in the majors Environmental Biology (MAJ01106) or Marine Biology (MAJ01107).

Completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
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<td>Biodiversity Conservation</td>
<td>6cp</td>
</tr>
<tr>
<td>91159</td>
<td>Environmental Forensics</td>
<td>6cp</td>
</tr>
<tr>
<td>91155</td>
<td>Stream and Lake Assessment</td>
<td>6cp</td>
</tr>
<tr>
<td>79084</td>
<td>Environmental Law and Science</td>
<td>6cp</td>
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</tbody>
</table>

SMJ09057 Environmental Biology
This major is only available to students enrolled in the Bachelor of Science in Environmental Forensics (C10227) (see page 233), Bachelor of Science in Marine Biology (C10228) (see page 234), or the Bachelor of Science (C10242) (see page 241) in the majors Marine Biology (MAJ01107), or Environmental Forensics (MAJ01108).

Completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>91155</td>
<td>Stream and Lake Assessment</td>
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<tr>
<td>91116</td>
<td>Wildlife Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>91159</td>
<td>Environmental Forensics</td>
<td>6cp</td>
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<td>Select one of the following:</td>
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</tr>
<tr>
<td>91371</td>
<td>Forest and Mountain Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>91370</td>
<td>Semi-arid Ecology</td>
<td>6cp</td>
</tr>
<tr>
<td>91163</td>
<td>Alpine and Lowland Ecology</td>
<td>6cp</td>
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<td></td>
<td>Total 24cp</td>
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</tbody>
</table>

SMJ09058 Econometrics
The analysis of economic data is a key economic skill. This sub-major provides analytical skills in data analysis that are both valuable for research and highly valued by employers in a range of work areas.
It is recommended that 23565 Mathematics for Economics and Business be completed before 23572 Applied Microeconometrics and 25573 Time Series Econometrics.

Completion requirements
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>23571</td>
<td>Introductory Econometrics</td>
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<tr>
<td>23565</td>
<td>Mathematics for Economics and Business</td>
<td>6cp</td>
</tr>
<tr>
<td>23572</td>
<td>Applied Microeconometrics</td>
<td>6cp</td>
</tr>
<tr>
<td>25573</td>
<td>Time Series Econometrics</td>
<td>6cp</td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

SMJ09059 Business Law
70327    | Commercial Law                      | 6cp           |
Select 18 credit points from the following options: 18cp
77716    | International Trade Law             | 6cp           |
77715    | Banking Law                         | 6cp           |
79771    | Dispute Resolution                  | 6cp           |
77724    | International Banking and Finance Law | 6cp     |
77745    | Negotiation                         | 6cp           |
79901    | Securities Markets Law              | 6cp           |
79938    | Introduction to Taxation Law        | 6cp           |
77942    | Legal Aspects of Contracts Administration | 6cp     |
|          | Total 24cp                          |               |

SMJ10011 Photography
88305    | Photography 1: Documentation        | 6cp           |
88405    | Photography 2: Communication        | 6cp           |
88505    | Photography 3: Fabrication          | 6cp           |
88605    | Photography 4: Construction         | 6cp           |
|          | Total 24cp                          |               |

SMJ10012 Textile Design
Free choice of electives.

SMJ10013 Film and Video
88308    | Introduction to Design for 2D Animation | 6cp   |
88408    | Advanced Design for 2D Animation     | 6cp   |
88503    | Introduction to Production Design    | 6cp   |
88603    | Advanced Production Design           | 6cp   |
|          | Total 24cp                          |               |

SMJ10016 Furniture Design
88316    | Furniture Context and Language      | 6cp   |
88416    | Furniture Production and Materials  | 6cp   |
88516    | Furniture Industry and Development  | 6cp   |
88616    | Furniture Prototype                 | 6cp   |
|          | Total 24cp                          |               |

SMJ10017 Design for Theatre
88333    | Design for Stage and Theatre: Contemporary | 6cp   |
88444    | Design for Stage and Theatre: Classics | 6cp   |
88555    | Design for Theatre: Special Performances | 6cp |
88666    | Design for Theatre: Self-Devised Project | 6cp  |
|          | Total 24cp                          |               |

SMJ10019 Exhibition Design
88323    | Exhibition Design: Practice          | 6cp |
88424    | Exhibition Design: Concepts and Strategies | 6cp   |
88525    | Exhibition Design: Process-based Project | 6cp   |
88626    | Exhibition Design: Methods of Interpretation Project | 6cp  |
|          | Total 24cp                          |               |

SMJ10020 Architectural Studies
Select 24 credit points from the following options: 24cp
11211    | Architectural Design: Forming       | 6cp           |
11212    | Architectural History and Theory: Orientations | 6cp |
11214    | Architectural Design: Architectural Communications | 6cp |
11216    | Architectural History and Theory: Modernity and Modernism | 6cp |
11208    | Architectural Design: Architectural Communications 2 | 6cp |
11205    | Architecture Culture and Environment | 6cp |
11206    | Introduction to Construction and Structural Synthesis | 6cp |
|          | Total 24cp                          |               |

SMJ10026 Object and Accessory Design
Free choice of electives.

SMJ10028 International Exchange
The International Exchange sub-major provides participants with the opportunity to study at an overseas institution and receive credit towards the MBA on completion of their study. It provides the opportunity to have an international study experience and to experience business operations in an international environment.

Completion requirements
999025    | International Exchange Subject 1   | 6cp           |
999026    | International Exchange Subject 2   | 6cp           |
999052    | International Exchange Subject 3   | 6cp           |
999780    | International Exchange Subject 4   | 6cp           |
|          | Total 24cp                          |               |

SMJ10030 Nanotechnology
65307    | Physical Chemistry 1               | 6cp           |
67909    | Molecular Nanotechnology           | 6cp           |
91140    | BioNanotechnology                  | 6cp           |
67510    | Surface Processes                  | 6cp           |
|          | Total 24cp                          |               |

SMJ10031 Physics
68416    | Computational Physics              | 6cp           |
68412    | Energy Science and Technology      | 6cp           |
68414    | Advanced Mechanics                 | 6cp           |
68415    | Measurement and Analysis of Physical Processes | 6cp  |
|          | Total 24cp                          |               |

SMJ10032 Media Studies
This sub-major invites students to investigate the role of media in their lives and in globalised social environments by exploring key media theories and carrying out original media research.
The first subject explores significant media debates and the evolution of media theories from all-powerful models of the media to more nuanced understandings of media influence, asking key questions including: What is a medium? How do people use media? How do the media ‘use’ people?
In the second subject students explore key research traditions, ways to study how people use media in their daily lives and ways of reflecting on how individuals shape their identity through social media and what it means to work as a media professional in contemporary Australian media industries.

The third subject equips students to analyse changing concepts of media audiences from passive recipients to active producers.

To develop students' research expertise in ways which help to prepare them for honours, postgraduate study, and careers in the media and in media research, students tackle research design, formulation of research questions, media research methods, literature reviewing, critical appraisal, and reporting their findings in research genres.

Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58226</td>
<td>Media, Mediation, Power</td>
<td>8cp</td>
</tr>
<tr>
<td>58324</td>
<td>Investigating Media, Reflective Practices</td>
<td>8cp</td>
</tr>
<tr>
<td>58325</td>
<td>Audiences, Users, Publics, Communities</td>
<td>8cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

**SMJ10033 Screen Studies**

In this sub-major, the first subject focuses on key movements and directors in cinema history, and key theories and debates that have defined film studies as a discipline. The second subject explores the ways in which various media (focusing on film, but also on television, video, and new media) inform and / or challenge our understanding of the past and its relationship to the present. Finally, the third subject focuses on a diverse range of contemporary films that are innovative and experimental in their structure and which are explored in conjunction with contemporary debates in film studies on the relationship between aesthetics, politics, affect, and experience. Each of the subjects are international in their focus and students engage critically and creatively with visual texts from, among other countries, France, Spain, Italy, Germany, China, Taiwan, Iran, Lebanon, Canada, the UK, Australia, New Zealand, Finland, Denmark, and the USA.

The sub-major appeals to students who have an interest in film (and other visual media), and who are keen to develop the vocabulary and skills to think and write about the history and theory of these media in an informed, critical, and scholarly way.

Further information on this sub-major can be found at: www.communication.uts.edu.au/courses/submajors.html

**Completion requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>58225</td>
<td>Introduction to Film Studies</td>
<td>8cp</td>
</tr>
<tr>
<td>58322</td>
<td>Screening the Past</td>
<td>8cp</td>
</tr>
<tr>
<td>58323</td>
<td>Contemporary World Cinema</td>
<td>8cp</td>
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<td><strong>Total 24cp</strong></td>
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</table>

**SMJ10034 Journalism**

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<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>58110</td>
<td>Introduction to Journalism</td>
<td>8cp</td>
</tr>
<tr>
<td>58111</td>
<td>Reporting with Sound and Image</td>
<td>8cp</td>
</tr>
<tr>
<td>58112</td>
<td>Reporting and Editing for Print and Online Journalism</td>
<td>8cp</td>
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</table>

**SMJ10035 Image Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>80067</td>
<td>Photographic Context 1</td>
<td>6cp</td>
</tr>
<tr>
<td>80068</td>
<td>Photographic Context 2</td>
<td>6cp</td>
</tr>
<tr>
<td>80035</td>
<td>Photographic Artifice</td>
<td>6cp</td>
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<tr>
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<td><strong>Total 6 credit points from the following options:</strong></td>
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</tr>
<tr>
<td>80033</td>
<td>Professional Practice: Photography</td>
<td>6cp</td>
</tr>
<tr>
<td>80063</td>
<td>Professional Practice: Situated / Interactive Media</td>
<td>6cp</td>
</tr>
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<td></td>
<td><strong>Total 24cp</strong></td>
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</table>

**SMJ10036 Innovation Technologies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>85500</td>
<td>Design Futures: Creative Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>80034</td>
<td>Physical and Tangible Media Interfaces for Design Expression</td>
<td>6cp</td>
</tr>
<tr>
<td>80214</td>
<td>Locative and Sensor Design Technologies</td>
<td>6cp</td>
</tr>
<tr>
<td>80063</td>
<td>Professional Practice: Situated / Interactive Media</td>
<td>6cp</td>
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<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>
STREAMS

STM90005 Chinese stream (LOTE)
Free choice of electives.

STM90006 French stream (LOTE)
Free choice of electives.

STM90007 German stream (LOTE)
Free choice of electives.

STM90010 Italian stream (LOTE)
Free choice of electives.

STM90011 Japanese stream (LOTE)
Free choice of electives.

STM90014 Spanish stream (LOTE)
Free choice of electives.

STM90016 China: Specialist Country Studies stream
976111 Contemporary China 8cp
CBK90487 Chinese Language and Culture 16cp
Total 24cp

STM90017 France: Specialist Country Studies stream
CBK90490 French Language and Culture 16cp
976411 Contemporary France 8cp
Total 24cp

STM90018 Germany: Specialist Country Studies stream
CBK90492 German Language and Culture 16cp
976421 Contemporary Germany 8cp
Total 24cp

STM90020 Italy: Specialist Country Studies stream
CBK90493 Italian Language and Culture 16cp
976431 Contemporary Italy 8cp
Total 24cp

STM90021 Japan: Specialist Country Studies stream
976211 Contemporary Japan 8cp
CBK90488 Japanese Language and Culture 16cp
Total 24cp

STM90022 Latin America: Specialist Country Studies stream
976502 Contemporary Latin(o) Americas 8cp
CBK90491 Spanish Language and Culture 16cp
Total 24cp

STM90023 Spain: Specialist Country Studies stream
CBK90491 Spanish Language and Culture 16cp
976451 Contemporary Spain 8cp
Total 24cp

STM90068 Capstone project + electives
48006 Capstone Project 6cp
Select 6 credit points of electives 6cp
Total 12cp

STM90070 Physical Modelling subjects
Free choice of electives.

STM90078 Project
Select one of the following:
49056 Graduate Project (24cp in 1 semester) 24cp
Total 24cp

STM90079 Project
Free choice of electives.

STM90080 Project + two electives
CBK90743 Electives 12cp
Select 18 credit points from the following options:
STM90606 Project (two semesters) (FT) 18cp
STM90607 Project (three semesters) 18cp
STM90608 Project (two semesters) (PT) 18cp
49052 Graduate Project (18cp in 1 semester) 18cp
Total 30cp

STM90081 Project + one elective
CBK90230 Elective 6cp
Select 24 credit points from the following options:
STM90609 Project (two semesters) (FT) 24cp
STM90610 Project (three semesters) 24cp
STM90611 Project (two semesters) (PT) 24cp
49058 Graduate Project (24cp in 1 semester) 24cp
Total 30cp

STM90082 Project
Select 30 credit points from the following options:
STM90613 Project (two semesters) 30cp
STM90612 Project (three semesters) (PT) 30cp
49017 Graduate Project (30cp in 1 semester) 30cp
STM90614 Project (three semesters) (FT) 30cp
Total 30cp

STM90083 Management stream
21862 Motivating and Managing People 8cp
21863 Changing the Organisational Design 8cp
21864 Global Strategic Thinking 8cp
Total 24cp

STM90085 Industrial Law stream
Free choice of electives.

STM90090 Project (two semesters)
57104 Information and Knowledge Management Project Part A 4cp
57105 Information and Knowledge Management Project Part B 12cp
Total 16cp

STM90091 Professional Project
Free choice of electives.

STM90092 Journalism Research Project (PT)
Free choice of electives.

STM90093 Film and Video stream
CBK90039 Media Arts choice 16cp
CBK90040 Media Production choice 16cp
Total 48cp

STM90094 New Media stream
CBK90239 400-level Media Arts subjects 8cp
CBK90504 New Media choice 8cp
CBK90505 Media Production choice 16cp
Total 48cp

STM90095 Sound stream
CBK90240 Electives 8cp
CBK90241 Electives (Sound) 8cp
CBK90274 Media Arts subjects 8cp
Total 48cp

STM90096 Media Arts and Production project (two semesters)
Free choice of electives.

STM90097 Option 1: Project (one semester)
Free choice of electives.

STM90098 Option 2: Project (two semesters)
Free choice of electives.

STM90099 Option 3: No project
57026 Strategic Communication and Negotiation 8cp
Total 24cp
### STM90100 Project (two semesters)
Free choice of electives.

### STM90102 Practical Legal Training stream

<table>
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<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>75402</td>
<td>Property Transactions</td>
<td>6cp</td>
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<tr>
<td>75403</td>
<td>Commercial and Estate Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>75420</td>
<td>Ethics and Professional Conduct</td>
<td>6cp</td>
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<tr>
<td>75421</td>
<td>Civil Litigation</td>
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### STM90106 Core subjects

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<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037</td>
<td>Physical Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>33130</td>
<td>Mathematical Modelling 1</td>
<td>6cp</td>
</tr>
<tr>
<td>33230</td>
<td>Mathematical Modelling 2</td>
<td>6cp</td>
</tr>
<tr>
<td>48230</td>
<td>Engineering Communication</td>
<td>6cp</td>
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<tr>
<td>48240</td>
<td>Design Fundamentals</td>
<td>6cp</td>
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<tr>
<td>48250</td>
<td>Engineering Economics and Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>48270</td>
<td>Entrepreneurship and Commercialisation</td>
<td>6cp</td>
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<tr>
<td>48260</td>
<td>Engineering Project Management</td>
<td>6cp</td>
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<td><strong>Total 48cp</strong></td>
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</tr>
</tbody>
</table>

### STM90107 Core subjects (Engineering)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037</td>
<td>Physical Modelling</td>
<td>6cp</td>
</tr>
<tr>
<td>33130</td>
<td>Mathematical Modelling 1</td>
<td>6cp</td>
</tr>
<tr>
<td>48230</td>
<td>Engineering Communication</td>
<td>6cp</td>
</tr>
<tr>
<td>33230</td>
<td>Mathematical Modelling 2</td>
<td>6cp</td>
</tr>
<tr>
<td>48240</td>
<td>Design Fundamentals</td>
<td>6cp</td>
</tr>
<tr>
<td>48250</td>
<td>Engineering Economics and Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>48260</td>
<td>Engineering Project Management</td>
<td>6cp</td>
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<td><strong>Total 48cp</strong></td>
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</table>

### STM90108 Core subjects (Business)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>23115</td>
<td>Economics for Business</td>
<td>6cp</td>
</tr>
<tr>
<td>22107</td>
<td>Accounting for Business Decisions A</td>
<td>6cp</td>
</tr>
<tr>
<td>24108</td>
<td>Marketing Foundations</td>
<td>6cp</td>
</tr>
<tr>
<td>26100</td>
<td>Integrating Business Perspectives</td>
<td>6cp</td>
</tr>
<tr>
<td>25300</td>
<td>Fundamentals of Business Finance</td>
<td>6cp</td>
</tr>
<tr>
<td>21129</td>
<td>Managing People and Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td>22207</td>
<td>Accounting for Business Decisions B</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 48cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

### STM90109 No specified specialisation

Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>020965</td>
<td>Drawing</td>
<td>6cp</td>
</tr>
<tr>
<td>020966</td>
<td>Painting and Printmaking</td>
<td>6cp</td>
</tr>
<tr>
<td>020967</td>
<td>Structure and Sequence in 3-Dimensional Arts</td>
<td>6cp</td>
</tr>
<tr>
<td>024915</td>
<td>The Multi-arts of Children's Literature</td>
<td>6cp</td>
</tr>
<tr>
<td>024918</td>
<td>Australian Children's Literature</td>
<td>6cp</td>
</tr>
<tr>
<td>020963</td>
<td>Arts in the Community</td>
<td>6cp</td>
</tr>
<tr>
<td>020964</td>
<td>Creative Arts Method</td>
<td>6cp</td>
</tr>
<tr>
<td>024913</td>
<td>Literary Theory</td>
<td>6cp</td>
</tr>
<tr>
<td>020203</td>
<td>Music, Media and Children</td>
<td>6cp</td>
</tr>
<tr>
<td>020962</td>
<td>Creative Arts Practice</td>
<td>6cp</td>
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<td></td>
<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>

### STM90111 Research project (Law PG)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>777251</td>
<td>Research Project 1 (PG)</td>
<td>6cp</td>
</tr>
<tr>
<td>777252</td>
<td>Research Project 2</td>
<td>6cp</td>
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<td><strong>Total 12cp</strong></td>
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</tbody>
</table>

### STM90112 Law graduate entrance stream

Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>78026</td>
<td>Business and Law in China</td>
<td>6cp</td>
</tr>
<tr>
<td>77704</td>
<td>European Union Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79015</td>
<td>Global Aspects of Intellectual Property Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77783</td>
<td>International Commercial Dispute Resolution</td>
<td>6cp</td>
</tr>
<tr>
<td>77724</td>
<td>International Banking and Finance Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77935</td>
<td>International Business Law</td>
<td>6cp</td>
</tr>
<tr>
<td>77751</td>
<td>International Commercial Arbitration</td>
<td>6cp</td>
</tr>
<tr>
<td>77701</td>
<td>International Economic Law (PG)</td>
<td>6cp</td>
</tr>
<tr>
<td>78011</td>
<td>International Sale of Goods</td>
<td>6cp</td>
</tr>
<tr>
<td>78025</td>
<td>International Trade Law and the Environment</td>
<td>6cp</td>
</tr>
<tr>
<td>77976</td>
<td>World Trade Organisation Law and Practice</td>
<td>6cp</td>
</tr>
<tr>
<td>78008</td>
<td>Law of the Sea</td>
<td>6cp</td>
</tr>
<tr>
<td>77740</td>
<td>Research Paper</td>
<td>6cp</td>
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<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

### STM90113 Non-law graduate entrance stream

Select 18 credit points from the following options: 18cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>77716</td>
<td>International Trade Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78109</td>
<td>Globalisation and International Economic Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78160</td>
<td>Rights and Obligations in the International Legal System</td>
<td>6cp</td>
</tr>
<tr>
<td>78201</td>
<td>International Development Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78010</td>
<td>International Criminal Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78016</td>
<td>International Humanitarian Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78107</td>
<td>Climate Law and Carbon Markets</td>
<td>6cp</td>
</tr>
<tr>
<td>78126</td>
<td>Corporate Governance</td>
<td>6cp</td>
</tr>
<tr>
<td>78141</td>
<td>International and Comparative Family Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78153</td>
<td>International Commercial Transactions</td>
<td>6cp</td>
</tr>
<tr>
<td>78156</td>
<td>International Environmental Law: Policy and Implementation</td>
<td>6cp</td>
</tr>
<tr>
<td>78158</td>
<td>Private International Law</td>
<td>6cp</td>
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<tr>
<td>78162</td>
<td>Global Governance and Social Justice</td>
<td>6cp</td>
</tr>
<tr>
<td>78182</td>
<td>Human Rights Law</td>
<td>6cp</td>
</tr>
<tr>
<td>78212</td>
<td>Communications and Technology: A Primer</td>
<td>6cp</td>
</tr>
<tr>
<td>78188</td>
<td>Intellectual Property Commercialisation</td>
<td>6cp</td>
</tr>
<tr>
<td>78184</td>
<td>Intellectual Property: Law and Policy</td>
<td>6cp</td>
</tr>
<tr>
<td>78218</td>
<td>Animal Law and Policy in Australia</td>
<td>6cp</td>
</tr>
<tr>
<td>78222</td>
<td>Law of Slavery and Human Trafficking</td>
<td>6cp</td>
</tr>
<tr>
<td>78216</td>
<td>Competition Law in a Global Context</td>
<td>6cp</td>
</tr>
<tr>
<td>78225</td>
<td>Environmental and Sustainable Development Law of China</td>
<td>6cp</td>
</tr>
<tr>
<td>78218</td>
<td>Animal Law and Policy in Australia</td>
<td>6cp</td>
</tr>
<tr>
<td>78206</td>
<td>International Organisations</td>
<td>6cp</td>
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<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
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</tbody>
</table>

### STM90114 Law honours entrance stream

Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>78218</td>
<td>Animal Law and Policy in Australia</td>
<td>6cp</td>
</tr>
<tr>
<td>78222</td>
<td>Law of Slavery and Human Trafficking</td>
<td>6cp</td>
</tr>
<tr>
<td>78216</td>
<td>Competition Law in a Global Context</td>
<td>6cp</td>
</tr>
<tr>
<td>78225</td>
<td>Environmental and Sustainable Development Law of China</td>
<td>6cp</td>
</tr>
<tr>
<td>78206</td>
<td>International Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
<td></td>
</tr>
</tbody>
</table>

### STM90115 Law postgraduate entrance stream

Select 24 credit points from the following options: 24cp

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>78218</td>
<td>Animal Law and Policy in Australia</td>
<td>6cp</td>
</tr>
<tr>
<td>78222</td>
<td>Law of Slavery and Human Trafficking</td>
<td>6cp</td>
</tr>
<tr>
<td>78216</td>
<td>Competition Law in a Global Context</td>
<td>6cp</td>
</tr>
<tr>
<td>78225</td>
<td>Environmental and Sustainable Development Law of China</td>
<td>6cp</td>
</tr>
<tr>
<td>78206</td>
<td>International Organisations</td>
<td>6cp</td>
</tr>
<tr>
<td></td>
<td><strong>Total 24cp</strong></td>
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</tr>
</tbody>
</table>
### STM90114 Law graduate entrant stream
Select 48 credit points from the following options:  
**48cp**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>77704</td>
<td>European Union Law 6cp</td>
</tr>
<tr>
<td>77724</td>
<td>International Banking and Finance Law 6cp</td>
</tr>
<tr>
<td>77935</td>
<td>International Business Law 6cp</td>
</tr>
<tr>
<td>77751</td>
<td>International Commercial Arbitration 6cp</td>
</tr>
<tr>
<td>77740</td>
<td>Research Paper 6cp</td>
</tr>
<tr>
<td>77783</td>
<td>International Commercial Dispute Resolution 6cp</td>
</tr>
<tr>
<td>77976</td>
<td>World Trade Organisation Law and Practice 6cp</td>
</tr>
</tbody>
</table>

### STM90115 Non-law graduate entrant stream
Select 42 credit points from the following options:  
**42cp**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>77885</td>
<td>Legal Process and Legal Research 6cp</td>
</tr>
<tr>
<td>77704</td>
<td>European Union Law 6cp</td>
</tr>
<tr>
<td>77724</td>
<td>International Banking and Finance Law 6cp</td>
</tr>
<tr>
<td>77935</td>
<td>International Business Law 6cp</td>
</tr>
<tr>
<td>77751</td>
<td>International Commercial Arbitration 6cp</td>
</tr>
<tr>
<td>77976</td>
<td>World Trade Organisation Law and Practice 6cp</td>
</tr>
<tr>
<td>77740</td>
<td>Research Paper 6cp</td>
</tr>
<tr>
<td>77783</td>
<td>International Commercial Dispute Resolution 6cp</td>
</tr>
<tr>
<td>78008</td>
<td>Law of the Sea 6cp</td>
</tr>
<tr>
<td>78011</td>
<td>International Sale of Goods 6cp</td>
</tr>
<tr>
<td>78023</td>
<td>International Trade Law and the Environment 6cp</td>
</tr>
<tr>
<td>77701</td>
<td>International Economic Law (PG) 6cp</td>
</tr>
<tr>
<td>78015</td>
<td>Global Aspects of Intellectual Property Law 6cp</td>
</tr>
</tbody>
</table>

### STM90111 Research project (Law PG)
*12cp*

### STM90161 Performance Studies stream

**27149** Performance Studies 1: Gymnastics and Dance 6cp
**27249** Performance Studies 2: Dance and Athletics 6cp
**27349** Performance Studies 3: Sport and Aquatics 6cp
**27449** Performance Studies 4: Skill Acquisition (Sport) 6cp
Total 24cp

### STM90142 Project (two semesters)
Free choice of electives.

### STM90143 Project (two semesters)
Free choice of electives.

### STM90161 Contextual Studies

**CBK90462 Electives**  
Total 12cp
**Total 36cp**

### STM90176 Core subjects

**27342** Sociocultural Concepts for Leisure, Sport and Tourism 6cp
**27180** Functional Kinesiology 6cp
**27111** Mechanics of Human Motion 6cp
**21129** Managing People and Organisations 6cp
**27152** Measurement and Development of Physical Capacity 6cp
**22107** Accounting for Business Decisions A 6cp
**27252** The Sport Industry 6cp
**27171** Applied Kinesiology (Sport) 6cp
**27160** Sport and Exercise Psychology 6cp
**27307** Sport Management 6cp
**27155** Research for Human Movement 6cp
**27175** Energetics of Human Movement 6cp
**27228** Exercise Prescription 6cp
**27105** Nutrition for Health and Physical Activity 6cp
**24108** Marketing Foundations 6cp
**27308** Exercise Management for Special Populations 6cp
**27324** Strategic Management in Leisure, Sport and Tourism Organisations 6cp
**27628** Law for Leisure, Sport and Tourism 6cp
**27350** Professional Internship (Capstone) 6cp
**27161** Sport Marketing 6cp
Total 120cp

### STM90177 Graduate project
Free choice of electives.

### STM90178 Core subjects

**27342** Sociocultural Concepts for Leisure, Sport and Tourism 6cp
**27180** Functional Kinesiology 6cp
**27111** Mechanics of Human Motion 6cp
**91429** Physiological Bases of Human Movement 6cp
**27152** Measurement and Development of Physical Capacity 6cp
**27228** Lifespan Development 6cp
**27252** Sport and Exercise Psychology 6cp
**27171** Applied Kinesiology (Sport) 6cp
**27160** Research for Human Movement 6cp
**27175** Energetics of Human Movement 6cp
STM90182 Thesis stream
25230 Thesis in Mathematics and Finance (Honours) 1 6cp
25231 Thesis in Mathematics and Finance (Honours) 2 6cp
Total 12cp

STM90184 Locating Oneself in Global Learning stream
Free choice of electives.

STM90190 Chinese Language stream
Free choice of electives.

STM90191 French Language stream
Free choice of electives.

STM90192 German Language stream
Free choice of electives.

STM90195 Italian Language stream
Free choice of electives.

STM90196 Japanese Language stream
Free choice of electives.

STM90199 Spanish Language stream
Free choice of electives.

STM90202 Programming and Design stream
Free choice of electives.

STM90203 Distributed Network Computing stream
Free choice of electives.

STM90205 Honours Thesis (two semesters)
Free choice of electives.

STM90206 Honours Thesis (three semesters)
Free choice of electives.

STM90210 Accounting stream
22901 Accounting Research and Consulting Skills 6cp
22902 Financial Reporting, Capital Markets and Disclosure 6cp
22903 Contemporary Issues in Management Accounting Research 6cp
22908 Economics of Auditing and Assurance Services 6cp
22906 Thesis in Accounting 24cp
Total 48cp

STM90211 Finance and Economics stream
Select 48 credit points from the following options: 48cp
CBK90936 Finance strand 48cp
CBK90937 Economics strand 48cp
Total 48cp

STM90212 Management stream
Subjects 21914 Readings and Reflecting on Management and 21915 Management and Organisation Seminars are only available to students who have completed MAJ08046 Extended Management.

Completion requirements
21908 Advanced Management and Organisation Research Methods 6cp
21910 Researching Organisations and Management 6cp
Select one of the following: 6cp
21907 Research Methods and Approaches in Management and Organisations 6cp
21914 Readings and Reflecting on Management 6cp
Select one of the following: 6cp
21909 Advanced Organisation and Management Theorising 6cp
21915 Management and Organisation Seminars 6cp
21912 Thesis Proposal in Management (Honours) 6cp
21913 Thesis in Management (Honours) 18cp
Total 48cp

STM90213 Marketing stream
24901 Philosophy of Science and Theory 6cp
24770 Thesis in Marketing (Honours) 1 6cp
24771 Thesis in Marketing (Honours) 2 18cp
Select one of the following: 6cp
24902 Research Methodology and Data Analysis Techniques 6cp
24758 Readings in Marketing 6cp
Select one of the following: 6cp
24908 Research Design and Data Collection Techniques 6cp
21751 Management Research Methods 6cp
Select one of the following: 6cp
24331 Marketing Analytics and Decisions 6cp
23908 Economic Modelling 6cp
Total 48cp

STM90216 Core subjects
Free choice of electives.

STM90225 Core subjects (SMD)
50830 Contemporary Music 1 6cp
50831 Sonology 6cp
50832 Electronic Music Composition 6cp
50833 Speech, Music, Sound 6cp
50834 Audio Production 6cp
50835 Audio Culture 6cp
50836 Sonic Art 6cp
50837 Contemporary Music 2 6cp
50838 Professional Practice (SMD) 6cp
Total 54cp

STM90226 Core subjects
Free choice of electives.

STM90228 Core subjects
Free choice of electives.

STM90253 Project (Cultural Studies) (two semesters)
Free choice of electives.

STM90266 Latino USA: Specialist Country Studies stream
976502 Contemporary Latin(o) Americas 8cp
CBK90941 Spanish Language and Culture 16cp
Total 24cp

STM90271 Engineering practice program
48121 Engineering Practice Preview 1 3cp
48110 Engineering Experience 1 6cp
48122 Engineering Practice Review 1 3cp
48141 Engineering Practice Preview 2 3cp
48130 Engineering Experience 2 0cp
48142 Engineering Practice Review 2 3cp
Total 12cp
| Core subjects (Engineering)                      | 68037 | Physical Modelling | 6cp |
|                                               | 33130 | Mathematical Modelling 1 | 6cp |
|                                               | 33230 | Mathematical Modelling 2 | 6cp |
|                                               | 48230 | Engineering Communication | 6cp |
|                                               | 48240 | Design Fundamentals | 6cp |
|                                               | 48260 | Engineering Project Management | 6cp |
| Total 36cp                                     |     |                      |     |

| Core subjects (Business)                      | 22107 | Accounting for Business Decisions A | 6cp |
|                                               | 21129 | Managing People and Organisations | 6cp |
|                                               | 24108 | Marketing Foundations | 6cp |
|                                               | 23115 | Economics for Business | 6cp |
|                                               | 25300 | Fundamentals of Business Finance | 6cp |
|                                               | 26134 | Business Statistics | 6cp |
|                                               | 26100 | Integrating Business Perspectives | 6cp |
|                                               | 22207 | Accounting for Business Decisions B | 6cp |
| Total 48cp                                     |     |                      |     |

| Core subjects (Biotechnology)                 | 65111 | Chemistry 1 | 6cp |
|                                               | 91611 | Cell Biology and Genetics | 6cp |
|                                               | 65212 | Chemistry 2 | 6cp |
|                                               | 91140 | BioNanotechnology | 6cp |
|                                               | 91320 | Metabolic Biochemistry | 6cp |
|                                               | 91314 | General Microbiology | 6cp |
|                                               | 91142 | Biotechnology | 6cp |
|                                               | 91144 | Plant Biotechnology | 6cp |
|                                               | 91369 | Biobusiness and Environmental Biotechnology | 6cp |
| Select one of the following:                  | 91335 | Molecular Biology 2 | 6cp |
|                                               | 91339 | Advanced Immunology | 6cp |
|                                               | 91132 | Molecular Biology 1 | 6cp |
|                                               | 91368 | Bioreactors and Bioprocessing | 6cp |
|                                               | 91326 | Analytical Biochemistry | 6cp |
|                                               | 91330 | Epidemiology and Public Health Microbiology | 6cp |
|                                               | 91401 | Introductory Haematology and Immunology | 6cp |
| Total 78cp                                     |     |                      |     |

| Core subjects (Biotechnology)                 | 91161 | Cell Biology and Genetics | 6cp |
|                                               | 65111 | Chemistry 1 | 6cp |
|                                               | 91400 | Human Anatomy and Physiology | 6cp |
|                                               | 65212 | Chemistry 2 | 6cp |
|                                               | 91320 | Metabolic Biochemistry | 6cp |
|                                               | 91314 | General Microbiology | 6cp |
|                                               | 91132 | Molecular Biology 1 | 6cp |
|                                               | 91330 | Epidemiology and Public Health Microbiology | 6cp |
|                                               | 91142 | Biotechnology | 6cp |
|                                               | 91326 | Analytical Biochemistry | 6cp |
|                                               | 91401 | Introductory Haematology and Immunology | 6cp |
| Select one of the following:                  | 91339 | Advanced Immunology | 6cp |
|                                               | 91335 | Molecular Biology 2 | 6cp |
|                                               | 91369 | Biobusiness and Environmental Biotechnology | 6cp |
|                                               | 91368 | Bioreactors and Bioprocessing | 6cp |
|                                               | 91144 | Plant Biotechnology | 6cp |
|                                               | 9129 | Transfusion Science | 6cp |
|                                               | 91345 | Biochemistry, Genes and Disease | 6cp |
|                                               | 91352 | Parasitology | 6cp |
| Total 96cp                                     |     |                      |     |

| Core subjects (Accounting)                    | 22107 | Accounting for Business Decisions A | 6cp |
|                                               | 22207 | Accounting for Business Decisions B | 6cp |
|                                               | 22157 | Australian Corporate Environment | 6cp |
|                                               | 26100 | Integrating Business Perspectives | 6cp |
|                                               | 25300 | Fundamentals of Business Finance | 6cp |
|                                               | 23115 | Economics for Business | 6cp |
|                                               | 24108 | Marketing Foundations | 6cp |
|                                               | 22605 | Accounting Information Systems | 6cp |
|                                               | 26134 | Business Statistics | 6cp |
| Total 54cp                                     |     |                      |     |

| Core subjects (Accounting)                    | 27342 | Sociocultural Concepts for Leisure, Sport and Tourism | 6cp |
|                                               | 27126 | Event and Leisure Industries | 6cp |
|                                               | 24108 | Marketing Foundations | 6cp |
|                                               | 21129 | Managing People and Organisations | 6cp |
|                                               | 27326 | Diversity Management | 6cp |
|                                               | 23115 | Economics for Business | 6cp |
|                                               | 27703 | Event Management | 6cp |
|                                               | 22107 | Accounting for Business Decisions A | 6cp |
|                                               | 27115 | Arts and Entertainment Industries | 6cp |
|                                               | 27192 | Event Impacts and Legacies | 6cp |
|                                               | 27344 | Research Foundations for Leisure Sport and Tourism | 6cp |
|                                               | 27116 | e-Marketing and Management of Services | 6cp |
|                                               | 27323 | Government and Policy for Leisure, Sport and Tourism | 6cp |
|                                               | 27350 | Professional Internship (Capstone) | 6cp |
|                                               | 27324 | Strategic Management in Leisure, Sport and Tourism Organisations | 6cp |
|                                               | 27216 | Venue Management | 6cp |
|                                               | 27362 | Industry Project 2 | 6cp |
|                                               | 27628 | Law for Leisure, Sport and Tourism | 6cp |
|                                               | 27345 | Creating Event Experiences | 6cp |
| Total 120cp                                   |     |                      |     |

| Core subjects (Accounting)                    | 27342 | Sociocultural Concepts for Leisure, Sport and Tourism | 6cp |
|                                               | 27184 | Dimensions of Tourism | 6cp |
|                                               | 24108 | Marketing Foundations | 6cp |
|                                               | 23115 | Economics for Business | 6cp |
|                                               | 27648 | The Tourism Business | 6cp |
|                                               | 27327 | Tourism and Sustainability | 6cp |
|                                               | 21129 | Managing People and Organisations | 6cp |
|                                               | 22107 | Accounting for Business Decisions A | 6cp |
|                                               | 27642 | Tourism Marketing | 6cp |
|                                               | 27185 | The Tourist Experience | 6cp |
|                                               | 27344 | Research Foundations for Leisure Sport and Tourism | 6cp |
|                                               | 27116 | e-Marketing and Management of Services | 6cp |
|                                               | 27323 | Government and Policy for Leisure, Sport and Tourism | 6cp |
|                                               | 27350 | Professional Internship (Capstone) | 6cp |
|                                               | 27361 | Industry Project 1 | 6cp |
|                                               | 27324 | Strategic Management in Leisure, Sport and Tourism Organisations | 6cp |
|                                               | 27642 | Tourism Marketing | 6cp |
|                                               | 27628 | Law for Leisure, Sport and Tourism | 6cp |
|                                               | 27348 | Critical Issues in Global Tourism | 6cp |
| Total 120cp                                   |     |                      |     |

| Core subjects (Accounting)                    | 27642 | Tourism Marketing | 6cp |
|                                               | 27184 | Dimensions of Tourism | 6cp |
|                                               | 27344 | Research Foundations for Leisure Sport and Tourism | 6cp |
|                                               | 27185 | The Tourist Experience | 6cp |
|                                               | 27648 | The Tourism Business | 6cp |
|                                               | 27327 | Tourism and Sustainability | 6cp |
|                                               | 27703 | Event Management | 6cp |
|                                               | 27116 | e-Marketing and Management of Services | 6cp |
|                                               | 27324 | Strategic Management in Leisure, Sport and Tourism Organisations | 6cp |
|                                               | 27523 | Planning for Sustainable Destinations | 6cp |
| Total 60cp                                     |     |                      |     |

| Core subjects (Accounting)                    | 21134 | Introduction to Community Management | 6cp |
|                                               | 21143 | Current Issues in the Community Sector | 6cp |
|                                               | 21043 | Australian Indigenous Studies | 6cp |
|                                               | 01393 | Adult Learning in Context | 6cp |
|                                               | 21224 | Indigenous Community Research | 6cp |
|                                               | 21225 | Managing Human Resources in Indigenous Organisations | 6cp |
|                                               | 013980 | Identity, Culture and Communication | 6cp |
|                                               | 21041 | Australian Indigenous Social and Political Development | 6cp |


STM90325 Key Learning Areas

- English Education 1 6cp
- English Education 2 6cp
- Mathematics Teaching and Learning 1 6cp
- Mathematics Teaching and Learning 2 6cp
- Mathematics Teaching and Learning 3 6cp
- Learning in Science and Technology 1 6cp
- Learning in Science and Technology 2 6cp
- Social and Environmental Education 1 6cp
- Social and Environmental Education 2 6cp
- Personal Development, Health and Physical Education 1 6cp
- Personal Development, Health and Physical Education 2 6cp
- Music, Movement and Dance 6cp
- Visual Arts Education 6cp

STM90326 Contextual Studies

- Philosophical and Ethical Practice in Education 6cp
- Child Development 6cp
- Research in Learning 6cp
- Sociology of Education 6cp
- Issues in Indigenous Australian Education 6cp

STM90328 Professional Experience

- Professional Experience 1: Beginning Teaching 6cp
- Professional Experience 2: Developing Classroom Management 6cp
- Professional Experience 3: Integrating Learning Technologies 6cp
- Professional Experience 4: Integrating Diverse Contexts in Education 6cp
- Professional Experience 5: Teaching Students with Special Educational Needs 6cp
- Professional Experience 6: Programming and Assessing in Education 6cp
- Professional Experience 7: Meeting the English Language Needs of Learners 6cp
- Professional Experience 8: Reflecting on Educational Practice 6cp

STM90329 Core subjects (Investigative Journalism)

- Investigative Journalism 8cp
- Investigative Research in the Digital Environment 8cp

STM90330 Standard entry (BN)

- Core subjects 96cp
- Core subjects 48cp
- Core subjects 144cp

STM90331 Accelerated entry (BN)

- Select one of the following: 144cp
  - Graduate Entry 144cp
  - Enrolled Nurse Entry 1 144cp
  - Enrolled Nurse Entry 2 144cp

STM90334 Core subjects (Finance)

- Financial Modelling and Forecasting 6cp
- Capital Markets 6cp
- Investment Management 6cp
- Accounting for Managerial Decisions 6cp
- Financial Management 6cp
- Corporate Finance 6cp
- International Finance 6cp

STM90335 Core subjects

- Financial Management 6cp
- Accounting for Managerial Decisions 6cp
- Capital Markets 6cp
- Total 24cp
STM90341 Core subjects (Accounting and Finance)
25742  Financial Management  6cp
22747  Accounting for Managerial Decisions  6cp
79708  Contemporary Business Law  6cp
Total 24cp

STM90343 Core subjects (Accounting Information Systems)
22708  Accounting Information Systems  6cp
22711  Accounting for Managerial Decisions  6cp
22759  Accounting and ERP  6cp
22766  Assurance for Enterprise Systems  6cp
Total 24cp

STM90344 Core subjects
27800  Applied Leadership and Strategy  8cp
25841  Decision Making Tools  8cp
21875  Organisational Behaviour in Practice  8cp
22814  Accounting Information for Managers  8cp
23845  Managerial Economics  8cp
21874  Corporate Governance and Sustainability  8cp
25846  Managerial Finance  8cp
24800  Managerial Marketing  8cp
21873  Global Business Strategies  8cp
Total 72cp

STM90345 Core subjects
21878  Organisational Dialogue: Theory and Practice  6cp
21800  Management and Organisations  6cp
22747  Accounting for Managerial Decisions  6cp
23706  Economics for Management  6cp
21844  Managing Work and People  6cp
22574  Financial Management  6cp
24734  Marketing Management  6cp
21715  Strategic Management  6cp
Total 48cp

STM90348 Core subjects (Medical Science)
65111  Chemistry 1  6cp
91161  Cell Biology and Genetics  6cp
65212  Chemistry 2  6cp
91400  Human Anatomy and Physiology  6cp
91320  Metabolic Biochemistry  6cp
91314  General Microbiology  6cp
91703  Physiological Systems  6cp
91706  Neuroscience  6cp
91705  Medical Devices and Diagnostics  6cp
91707  Pharmacology 1  6cp
91708  Medical and Applied Physiology  6cp
91709  Pharmacology 2  6cp
91239  Human Pathophysiology  6cp
Total 78cp

STM90349 Core subjects (Medical Science)
91161  Cell Biology and Genetics  6cp
65111  Chemistry 1  6cp
91400  Human Anatomy and Physiology  6cp
65212  Chemistry 2  6cp
91314  General Microbiology  6cp
91703  Physiological Systems  6cp
68041  Physical Aspects of Nature  6cp
91707  Pharmacology 1  6cp
91320  Metabolic Biochemistry  6cp
91705  Medical Devices and Diagnostics  6cp
91708  Neuroscience  6cp
91708  Medical and Applied Physiology  6cp
91709  Pharmacology 2  6cp
91709  Pharmacology 2  6cp
91329  Human Pathophysiology  6cp
91330  Epidemiology and Public Health  6cp
91401  Introductory Haematology and Immunology  6cp
Select 6 credit points from the following options:
91132  Molecular Biology 1  6cp
91330  Epidemiology and Public Health  6cp
91401  Introductory Haematology and Immunology  6cp
Total 96cp

STM90352 Sustainable Energy Systems stream
48661  Heat Transfer  6cp
49322  Airconditioning  6cp
49312  Advanced Flow Modelling  6cp
48670  Mechanical and Mechatronic Design  6cp
Total 24cp

STM90353 Intelligent Systems stream
49274  Advanced Robotics  6cp
49275  Neural Networks and Fuzzy Logic  6cp
49261  Biomedical Instrumentation  6cp
48670  Mechanical and Mechatronic Design  6cp
Total 24cp

STM90354 Computer-aided Design stream
49325  Computer-aided Mechanical Design  6cp
49312  Advanced Flow Modelling  6cp
48662  Mechanical Applications  6cp
48670  Mechanical and Mechatronic Design  6cp
Total 24cp

STM90355 Biomedical Technology stream
91400  Human Anatomy and Physiology  6cp
Select one of the following:
91705  Medical Devices and Diagnostics  6cp
91703  Physiological Systems  6cp
49261  Biomedical Instrumentation  6cp
48670  Mechanical and Mechatronic Design  6cp
Total 24cp

STM90356 Core subjects
33130  Mathematical Modelling 1  6cp
Select one of the following:
33230  Mathematical Modelling 2  6cp
48071  Engineering Analytical Modelling  6cp
48230  Engineering Communication  6cp
48240  Design Fundamentals  6cp
48250  Engineering Economics and Finance  6cp
68037  Physical Modelling  6cp
Total 36cp

STM90357 No specified major
Select one of the following:
48221  Engineering Computations  6cp
48023  Programming Fundamentals  6cp
48210  Interrogating Technology: Sustainability, Environment and Social Change  6cp
Select 72 credit points from the following options:  72cp
48024  Applications Programming  6cp
48433  Software Architecture  6cp
48440  Software Engineering Practice  6cp
48770  Continuous Communications  6cp
48771  Discrete Communications  6cp
48780  Mobile Communications  6cp
48730  Authentication and System Security  6cp
48740  Communications Networks  6cp
48750  Network Planning and Management  6cp
48510  Introduction to Electrical Engineering  6cp
48441  Introductory Digital Systems  6cp
48521  Fundamentals of Electrical Engineering  6cp
48520  Electronics and Circuits  6cp
48531  Electromechanical Automation  6cp
48530  Circuit Analysis  6cp
48038  Advanced Mathematics and Physics  6cp
48540  Signals and Systems  6cp
48572  Power Circuit Theory  6cp
48541  Advanced Digital Systems  6cp
48570  Data Acquisition and Distribution  6cp
48571  Electrical Machines  6cp
48560  Introductory Control  6cp
48610  Introduction to Mechanical and Mechatronic Engineering  6cp
48621  Manufacturing Engineering  6cp
48620  Fundamentals of Mechanical Engineering  6cp
48600  Mechanical Design 1  6cp
48640  Machine Dynamics  6cp
48642  Strength of Engineering Materials  6cp
48651  Thermodynamics  6cp
48660  Dynamics and Control  6cp
48650  Mechanical Design 2  6cp
48410  Introduction to ICT Engineering  6cp
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**Total 60cp**

**Total 48cp**

**Total 84cp**

**Total 160cp**

**Total 150cp**

**Total 132cp**
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<td>Professional Experience 2: Teaching and Learning in Context</td>
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STM90391 Core subjects (TESOL)
015421 Language Teaching Methodology 6cp
015253 Professional Experience: Teaching and Learning in Context 6cp
Total 24cp

STM90392 Core subjects
020001 Psychology of Secondary Students 6cp
023124 Professional Practice in the Secondary School 6cp
023137 Professional Practice in Catering for Difference and Special Needs 6cp
023138 Social and Philosophical Aspects of Secondary Education 6cp
Total 24cp

STM90393 Honours Thesis (Education)
015428 Honours Thesis 1 6cp
Select one of the following: 24cp
015429 Honours Thesis (FT) 2 24cp
STM90368 Honours Thesis (PT) 24cp
Total 30cp

STM90394 Core subjects
Free choice of electives.

STM90395 Practicum stream
023111 Practicum 1: Beginning Teaching 8cp
023112 Practicum 2: Developing Classroom Management 8cp
023118 Practicum 8: Analysing Current Issues in Australian Education 6cp
Total 62cp

STM90396 Core subjects
021311 Computer-mediated Learning for Children 4cp
024213 English Education 3 6cp
028211 Science and Technology Education 1 4cp
Total 88cp

STM90397 Special Education stream
023821 Special Education 1: Managing Challenging Behaviours 6cp
023822 Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling 6cp
023823 Special Education 3: Educating Students who have Difficulties with Written Text 6cp
023824 Special Education 4: Numeracy Instruction for Students with Learning, Difficulties and Disabilities 6cp
023825 Special Education 5: Educating Students with Moderate and High Support Needs 6cp
023826 Special Education 6: Educating Students with Delayed or Disordered Communication 6cp
Total 36cp

STM90399 100-level core subjects (Journalism/Law)
Free choice of electives.

STM90400 Humanities stream
STM90399 100-level core subjects (Journalism/Law) 24cp
CBK90313 Electives (Journalism) 8cp
CBK90022 200-level professional choice: Journalism 16cp
CBK90023 300-level professional choice: Journalism 16cp
STM90383 Core subjects 36cp
Total 100cp

STM90401 Law stream
STM90378 Core subjects (Law UG) 96cp
CBK90042 Options 24cp
CBK90437 Options/PLT 24cp
Total 144cp

STM90402 Core subjects
48023 Programming Fundamentals 6cp
31268 Web Systems 6cp
48024 Applications Programming 6cp
31266 Introduction to Information Systems 6cp
31251 Data Structures and Algorithms 6cp
31271 Database Fundamentals 6cp
31269 Business Requirements Modelling 6cp

STM90403 Core subjects
Free choice of electives.

STM90404 Practicum (SpecEd) stream
023111 Practicum 1: Beginning Teaching 8cp
023112 Practicum 2: Developing Classroom Management 8cp
023118 Practicum 8: Analysing Current Issues in Australian Education 6cp
Total 62cp

STM90405 Core subjects (Design PG)
89301 Design Communication and Criticism 6cp
89302 Practice Management and Leadership 6cp
89303 Client and User-centred Designing 6cp
89304 Social Change Design 6cp
Total 24cp

STM90409 Facility Management subjects (PG)
15321 Workplace Ecology 6cp
15322 Engineering Services and Systems 6cp
15323 Development Management 6cp
15324 Facility Obsolescence 6cp
Total 24cp

STM90410 Core subjects (Facility Management)
15341 Sustainable Development 12cp
15342 Environmental Design 12cp
15343 Strategic Facility Planning 12cp
15344 Facility Performance 12cp
Total 48cp

STM90411 Core subjects (Planning)
15301 Planning Theory and Decision Making 6cp
15302 Major Project: Methods 6cp
15303 Major Project: Analysis 6cp
15304 Major Project: Outcomes 6cp
Total 24cp

STM90412 Core subjects (Planning)
15211 Planning Project Development Assessment 6cp
15221 Urban Design and Management 6cp
15231 Planning Project Implementation 6cp
15241 Urban Economics and Finance 6cp
Total 24cp

STM90413 Core subjects (Planning)
15121 Urban Analysis 6cp
15111 Planning Project Analysis 6cp
15141 Sustainable Development 6cp
15131 Planning Project Visioning 6cp
Total 24cp

STM90414 Core subjects (Property)
17518 Advanced Property Development 6cp
17704 Property Development Finance 6cp
Total 12cp

STM90415 Property Fundamentals subjects (PG)
12511 Building Technology and Regulation 6cp
12516 Property Transactions 6cp
17701 Environment and Control 6cp
17771 Valuation Methodology 6cp
Total 24cp
STM90416 Core subjects 2 (TESOL)
Free choice of electives.

STM90417 Core subjects
Free choice of electives.

STM90418 Core subjects
Free choice of electives.

STM90419 Core subjects
Free choice of electives.

STM90420 Core subjects
Free choice of electives.

STM90421 Core subjects
Free choice of electives.

STM90422 Core subjects
Free choice of electives.

STM90423 Core subjects
Free choice of electives.

STM90424 Core subjects
Free choice of electives.

STM90425 Core subjects
Free choice of electives.

STM90426 Core subjects
Free choice of electives.

STM90427 Core subjects
024903 Research Methodology 6cp
024914 Research Project 12cp
Total 18cp

STM90428 Core subjects
Free choice of electives.

STM90429 Core subjects
015393 Psychology of Secondary Students 3cp
015394 Meeting Special Needs in the Secondary School 3cp
015421 Language Teaching Methodology 6cp
Total 42cp

STM90430 Honours subjects
Free choice of electives.

STM90431 Mathematics specialisation
Free choice of electives.

STM90432 Science and Technology specialisation
028411 Science and Technology Study 1: The Human Body 6cp
028412 Science and Technology Study 2: Science and Technology in Daily Life 6cp
028413 Science and Technology Study 3: Issues in Science, Technology and Society 6cp
028414 Science and Technology Study 4: Planet Earth 6cp
Total 24cp

STM90433 Educational Computing specialisation
021412 Educational Computing Study 2 6cp
Total 24cp

STM90434 Education specialisation
024411 Education Study 1: History of Australian Education 6cp
024412 Education Study 2: Value 6cp
024413 Education Study 3: Changing Schools 6cp
024414 Education Study 4: Educational Policy Studies 6cp
Total 24cp

STM90435 International specialisation
029410 International Study 24cp
Total 24cp

STM90436 English specialisation
024411 English Study 1: Shapes and Patterns in Literary Narrative from Sendak to Shakespeare 6cp
024412 English Study 2: Images of Australia, the Place and the People - Literary Representations in Prose, Poetry and Drama 6cp
024413 English Study 3: The Literature of Protest 6cp
024414 English Study 4: Cultural and Textual Cross-currents 6cp
Total 24cp

STM90437 Human Society and its Environment specialisation
022203 HSIE Study 2: Conflicts and Resolutions 6cp
022204 HSIE Study 3: Multicultural Australia in its Asia-Pacific Regional Context, Implications for Teaching 6cp
022210 HSIE Study 4: Family History in its Social Context 6cp
023200 HSIE Study 1: Social Issues and Social Action 6cp
Total 24cp

STM90438 Languages specialisation
Select 24 credit points from the following options: 24cp
CBK90494 Chinese Language and Culture 24cp
CBK90495 Japanese Language and Culture 24cp
CBK90497 French Language and Culture 24cp
CBK90498 Spanish Language and Culture 24cp
CBK90500 Italian Language and Culture 24cp
Total 24cp

STM90439 PDHPE specialisation
027411 PDHPE Study 1: Theory and Practice of Personal Development Health and Physical Education and Support 6cp
027412 Personal Development Health and Physical Education: Teachers and Physical Activity 6cp
027413 Specialisation Study 3: Issues in Personal Development, Health and Physical Education 6cp
Total 24cp

STM90440 Art specialisation
020411 Art Study 1: People in Art 6cp
020412 Art Study 2: A Sense of Place 6cp
020413 Art Study 3: Stories, Myths and Truth 6cp
020414 Art Study 4: Design and Power 6cp
Total 24cp

STM90441 Children’s Theatre and the Creative Arts specialisation
024421 Children’s Theatre and the Creative Arts 1: Overview of World Theatre, Production Roles, Script Writing 6cp
024422 Children’s Theatre and Creative Arts Study 2: Acting and Performing Skills - Genres for Children 6cp
024423 Children’s Theatre and Creative Arts Study 3: Production and Direction 6cp
024424 Children’s Theatre and Creative Arts 4: Staging Performances 6cp
Total 24cp

STM90442 Music specialisation
026411 Music Study 1 6cp
026412 Music Study 2 6cp
Total 24cp

STM90443 Practicum stream
023112 Practicum 2: Developing Classroom Management 8cp
023118 Practicum 8: Analysing Current Issues in Australian Education 6cp
023111 Practicum 1: Beginning Teaching 8cp
Total 54cp

STM90444 100-level disciplinary core subjects (MAP/Law)
Free choice of electives.
STM90445 Humanities stream
STM90444 100-level disciplinary core subjects (MAP/Law) 24cp
CBK90014 200-level disciplinary choice: Cultural Studies 8cp
CBK90015 300-level disciplinary choice: Cultural Studies 8cp
CBK90024 200-level professional choice: Media Arts and Production 16cp
CBK90025 300-level professional choice: Media Arts and Production 16cp
STM90384 Core subjects 12cp
CBK90314 Electives (Media Arts and Production) 8cp
CBK90745 200/300-level disciplinary choice 8cp
Total 100cp

STM90446 Social Inquiry/Law stream
Free choice of electives.

STM90447 Humanities stream
STM90446 Social Inquiry/Law stream 24cp
CBK90016 200-level disciplinary choice: Social, Political, Historical Studies 8cp
CBK90017 300-level disciplinary choice: Social, Political, Historical Studies 8cp
CBK90315 Electives (Social Inquiry) 8cp
CBK90316 Electives (Public Communication) 8cp
STM90381 Core subjects 28cp
Total 100cp

STM90448 100-level core subjects (Public Communication/Law)
Free choice of electives.

STM90449 Humanities stream
STM90448 100-level core subjects (Public Communication/Law) 24cp
CBK90036 Electives (Public Communication) 8cp
STM90381 Core subjects 36cp
CBK90451 Professional choice: Public Communication 32cp
STM90382 Core subjects 28cp
Total 100cp

STM90450 100-level core subjects (Writing and Cultural Studies/Law)
Free choice of electives.

STM90451 Humanities stream
STM90450 100-level core subjects (Writing and Cultural Studies/Law) 24cp
CBK90014 200-level disciplinary choice: Cultural Studies 8cp
CBK90037 Electives (Writing and Cultural Studies) 8cp
CBK90034 200-level professional choice: Writing 16cp
CBK90035 300-level professional choice: Writing 16cp
STM90385 Core subjects 12cp
CBK90015 300-level disciplinary choice: Cultural Studies 8cp
CBK90745 200/300-level disciplinary choice 8cp
Total 100cp

STM90452 100-level disciplinary core subjects
Free choice of electives.

STM90453 Humanities stream
STM90452 100-level disciplinary core subjects 24cp
STM90386 Core subjects 68cp
CBK90318 Electives 8cp
Total 100cp

STM90454 Subjects credited from C10206
Free choice of electives.

STM90455 Subjects credited from C10207
Free choice of electives.

STM90457 Honours subjects (SpecEd) final year
023625 Research Seminar 6cp
023628 Advanced Studies in Special Education 1: Educating Students with Delayed or Disordered Communication 6cp
023629 Advanced Studies in Special Education 2: Numeracy Instruction for Students with Learning Difficulties and Disabilities 6cp
Total 48cp

STM90458 PLT stream
75412 Legal Skills 6cp
75402 Property Transactions 6cp
75403 Commercial and Estate Practice 6cp
75413 Advocacy 6cp
75420 Ethics and Professional Conduct 6cp
75421 Civil Litigation 6cp
75411 Practical Experience 6cp
Total 36cp

STM90463 Core subjects
49003 Economic Evaluation 6cp
49002 Managing Projects 6cp
49009 Quality Planning and Analysis 6cp
49004 Systems Engineering for Managers 6cp
Total 36cp

STM90464 MBA stream
21800 Management and Organisations 6cp
23706 Economics for Management 6cp
24734 Marketing Management 6cp
25742 Financial Management 6cp
21878 Organisational Dialogue: Theory and Practice 6cp
21715 Strategic Management 6cp
Select 12 credit points from the following options: 12cp
49006 Risk Management in Engineering 6cp
49013 Managing Information Technology in Engineering 6cp
49306 Quality and Operations Management Systems 6cp
49016 Technology and Innovation Management 6cp
Total 48cp

STM90465 MEM stream
49001 Judgment and Decision Making 6cp
22747 Accounting for Managerial Decisions 6cp
21844 Managing Work and People 6cp
49002 Managing Projects 6cp
49004 Systems Engineering for Managers 6cp
49309 Quality Planning and Analysis 6cp
Select 12 credit points from the following options: 12cp
49006 Risk Management in Engineering 6cp
49013 Managing Information Technology in Engineering 6cp
49306 Quality and Operations Management Systems 6cp
49016 Technology and Innovation Management 6cp
Total 48cp

STM90466 Human-centred Design
32509 Interaction Design 6cp
Select 18 credit points from the following options: 18cp
32405 User-Centred Design Methods 6cp
32027 Multimedia Systems Design 6cp
32029 Interactive Arts 6cp
Total 24cp

STM90467 Data Mining
32130 Fundamentals of Data Analytics 6cp
Select 18 credit points from the following options: 18cp
32131 Data Mining and Visualisation 6cp
32146 Data Visualisation and Visual Analytics 6cp
32513 Advanced Data Mining Algorithms 6cp
32133 e-Market Trading Technology 6cp
32530 Building Intelligent Agents 6cp
Total 24cp
### Software Engineering

Select 18 credit points from the following options: 18cp
- 32148 Enterprise Computing 6cp
- 32536 Advanced Software Modelling 6cp
- 32106 Agile Method Engineering 6cp
- 32535 Database in Distributed Environments 6cp
- 32570 Enterprise Software Architecture and Middleware 6cp
- 32571 Enterprise Software Testing 6cp

Total 24cp

### IT Management

Select 18 credit points from the following options: 18cp
- 32147 Introduction to IT Management 6cp
- 32028 Information Systems Strategy 6cp
- 49016 Technology and Innovation Management 6cp
- 32027 Multimedia Systems Design 6cp
- 32012 Interface Design 6cp
- 32990 IT Contracts and Outsourcing 6cp
- 32995 People Management for IT 6cp

Total 24cp

### e-Business Technology

Select 18 credit points from the following options: 18cp
- 32120 Introduction to e-Business Technology 6cp
- 32514 Internet Programming 6cp
- 32549 Advanced Internet Programming 6cp
- 32148 Enterprise Computing 6cp
- 32525 Web Services Technologies and Applications 6cp

Total 24cp

### Computer Graphics and Gaming

Select 6 credit points from the following options: 6cp
- 32003 Computer Game Design 6cp
- 32004 Game Programming 6cp

Total 24cp

### Human-centred Design

Select 18 credit points from the following options: 18cp
- 32091 Interaction Design 6cp
- 32405 User-Centred Design Methods 6cp
- 32027 Multimedia Systems Design 6cp
- 32029 Interactive Arts 6cp

Total 24cp

### Data Mining

Select 24 credit points from the following options: 24cp
- 32130 Fundamentals of Data Analytics 6cp
- 32131 Data Mining and Visualisation 6cp
- 32146 Data Visualisation and Visual Analytics 6cp
- 32513 Advanced Data Mining Algorithms 6cp

Total 30cp

### Software Engineering

Select 24 credit points from the following options: 24cp
- 32148 Enterprise Computing 6cp
- 32536 Advanced Software Modelling 6cp
- 32106 Agile Method Engineering 6cp
- 32535 Database in Distributed Environments 6cp
- 32550 Advances in Requirements Engineering 6cp

Total 30cp

### IT Management

Select 24 credit points from the following options: 24cp
- 32147 Introduction to IT Management 6cp
- 32208 Information Systems Strategy 6cp
- 32541 Project Management 6cp
- 49016 Technology and Innovation Management 6cp
- 32027 Multimedia Systems Design 6cp
- 32029 Interactive Arts 6cp
- 32509 Interaction Design 6cp
- 32531 Global Information Systems 6cp
- 32990 IT Contracts and Outsourcing 6cp
- 32995 People Management for IT 6cp

Total 30cp

### e-Business Technology

Select 30 credit points from the following options: 24cp
- 32120 Introduction to e-Business Technology 6cp
- 32514 Internet Programming 6cp
- 32549 Advanced Internet Programming 6cp
- 32148 Enterprise Computing 6cp
- 32525 Web Services Technologies and Applications 6cp

Total 30cp

### Computer Graphics and Gaming

Select 30 credit points from the following options: 24cp
- 32003 Computer Game Design 6cp
- 32004 Game Programming 6cp

Total 30cp

### Master’s option without project

Select 16 credit points from the following options: 16cp
- 57182 Rethinking Media 8cp
- CBK90348 Electives 8cp

Total 48cp

### Clinical Accreditation Program (SLHD)

Select 6 credit points from the following options: 6cp
- 92869 Specialty Clinical Practice 6cp

Total 6cp

### Clinical Accreditation Program (NSLHD)

Select 6 credit points from the following options: 6cp
- 92869 Specialty Clinical Practice 6cp

Total 6cp

### No specified major

Select 36 credit points from the following options: 36cp
- CBK90549 Options 36cp

Total 48cp
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STM90511 Core subjects

21751 Management Research Methods 6cp
27733 The Experience Economy 6cp
22747 Accounting for Managerial Decisions 6cp
27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
27734 Marketing for the Experience Industries 6cp

Total 30cp

STM90512 Journalism stream

58110 Introduction to Journalism 8cp
58111 Reporting with Sound and Image 8cp
58112 Reporting and Editing for Print and Online Journalism 8cp

Total 24cp

STM90513 Records Management stream

57100 People, Information and Knowledge 8cp
57181 Recordkeeping Fundamentals 8cp
57087 Knowledge Management and the Organisation 8cp
57147 Enterprise Content Management 8cp
57153 Digital Curation 8cp
57089 Information Research and Data Analysis 8cp

Total 24cp

CBK90415 Elective 8cp
CBK90416 Master's option 16cp

Total 72cp

STM90514 Public Communication stream

58116 The Ecology of Public Communication 8cp
58117 Principles of Public Relations 8cp
58118 Principles of Advertising 8cp

Total 24cp

STM90515 Writing and Cultural Studies stream

58119 Text and Context 8cp
58120 Creativity and Culture 8cp
58121 Fictional Forms 8cp

Total 24cp

STM90516 Social Inquiry stream

58122 Introduction to Social Inquiry 8cp
58123 Society, Economy and Globalisation 8cp
58124 Local Transformations 8cp

Total 24cp

STM90517 Information and Media stream

58125 Creative Information Design 8cp
58126 Information Discovery and Analysis 8cp
58127 Information Cultures 8cp

Total 24cp

STM90518 Urban Design

11522 Master Class Urban Design 6cp
Select 12 credit points from the following options: 12cp
15146 Sustainable Urban Development 6cp
17700 Planning and Environmental Law 6cp
15241 Urban Economics and Finance 6cp
171200 Conservation and Heritage 6cp
11521 Digital Theory 6cp

Total 42cp

STM90519 Design Technologies

11521 Digital Theory 6cp
11524 Master Class Design Technologies 2 6cp
11523 Master Class Design Technologies 1 6cp

Total 42cp

STM90520 Core subjects

33130 Mathematical Modelling 1 6cp
Select one of the following: 6cp
33230 Mathematical Modelling 2 6cp
48071 Engineering Analytical Modelling 6cp
48210 Interrogating Technology: Sustainability, Environment and Social Change 6cp
48230 Engineering Communication 6cp
48240 Design Fundamentals 6cp
48250 Engineering Economics and Finance 6cp
68037 Physical Modelling 6cp

Total 42cp

STM90521 Core subjects (Accounting and Finance)

22754 Corporate Accounting 6cp
25731 International Finance 6cp
25721 Investment Management 6cp
79708 Contemporary Business Law 6cp
22747 Accounting for Managerial Decisions 6cp
25742 Financial Management 6cp
22743 Business Valuation and Financial Analysis 6cp
25741 Capital Markets 6cp
25765 Corporate Finance 6cp
22748 Financial Reporting and Analysis 6cp
22730 Auditing and Assurance Services 6cp

Total 72cp

STM90522 Professional stream

60901 Advanced Communication Skills in Science 6cp
Select one of the following: 6cp
60902 The Scientific Method 6cp
35212 Computational Linear Algebra 6cp
48023 Programming Fundamentals 6cp
60903 Project Management in Science 6cp
60904 Innovation, Entrepreneurship and Commercialisation 6cp

Total 24cp

STM90523 Standard stream

CBK90170 Major/Two sub-majors/Sub-major + four electives 48cp
CBK90169 Major choice (Business) 48cp

Total 96cp

STM90524 Extended major

CBK90645 Extended major choice 72cp
CBK90646 Sub-major/Four electives 24cp

Total 96cp

STM90525 Core subjects (HRM)

21779 Management Skills 6cp
21720 Human Resource Management 6cp
21844 Managing Work and People 6cp
21800 Management and Organisations 6cp
21827 Change Management 6cp
21833 International Human Resource Management 6cp
21702 Industrial Relations 6cp
21760 Performance and Talent Management 6cp
21724 Strategic Human Resource Management 6cp

Total 54cp
**STM90527 Core subjects**
- 89105 Design Activism 6cp
- 89106 Researching Contexts 6cp
- 89107 Innovation and Entrepreneurship: A 6cp
- 89108 Technology Workshop: Creative Play 6cp
- 89109 Technology Workshop: Experimental Media 6cp
- 89110 Engaging Texts: Interpreting Contexts 6cp

Total 36cp

**STM90528 Core subjects (Adult Education)**
- 013122 Understanding Adult Education and Training 6cp
- 013142 Adult Learning and Program Development 6cp
- 013977 Teaching and Learning in Practice 6cp

Total 18cp

**STM90529 Core subjects (TESOL)**
- 010070 Professional Practice 1 Language Literacy and Numeracy 6cp
- 010071 Professional Practice 2 Language Literacy and Numeracy 6cp
- 013102 Introduction to Language 6cp
- 013958 Language Teaching Methodology 6cp

Total 24cp

**STM90530 Level 1 subjects (Midwifery)**
Select one of the following:
- 92019 Contemporary Clinical Midwifery Practice 6cp
- 92927 Evidence-based Practice (Midwifery) 6cp
- 92200 Midwifery in Context 6cp
- 92201 Perinatal Mental Health 6cp
- 92260 Family and Community Health Practice 6cp

Total 24cp

**STM90531 Level 2 subjects (Midwifery)**
- 92018 Building Resilience in Mothers and Midwives 6cp
- 92050 Policy, Power and Politics in Health Care 6cp
- 92612 Research in Health 6cp

Select 6 credit points from the following options:
- CBK90903 Electives (Midwifery) 6cp

Total 24cp

**STM90532 Level 3 subjects (Midwifery)**
- 92925 Models of Midwifery Care 6cp
- 92938 Midwifery Practice Development 6cp

Select 12 credit points from the following options:
- 92946 Project Part A 6cp
- 92947 Project Part B 6cp
- CBK90904 Electives (Midwifery) 12cp

Total 24cp

**STM90533 Core subjects**
- 92202 Improving Quality and Safety in Health Care 6cp
- 92051 Health Services Management and Legal Issues 6cp
- 92606 Issues in Australian Health Services 6cp
- 92917 Using Health Care Data for Decision Making 6cp

Total 16cp

**STM90534 Core subjects**
- 92050 Policy, Power and Politics in Health Care 6cp
- 92603 Managing Quality, Risk and Cost in Health Care 6cp
- 92847 Planning and Evaluating Health Services 6cp

Total 16cp

**STM90535 Core subjects (Health Services Management and Planning)**
- 21720 Human Resource Management 6cp
- 26703 Introductory Health Economics 6cp
- 92023 Health Services Resource Management 6cp
- 92050 Policy, Power and Politics in Health Care 6cp
- 92051 Health Services Management and Legal Issues 6cp
- 92295 Advanced Health Services Planning 6cp
- 92296 Epidemiology and Population Health 6cp
- 92297 Health Systems and Change 6cp
- 92603 Managing Quality, Risk and Cost in Health Care 6cp
- 92887 Organisational Management in Health Care 6cp
- 92946 Project Part A 6cp

Total 66cp

**STM90537 Core subjects (Education PG)**
- 013122 Understanding Adult Education and Training 6cp
- 013142 Adult Learning and Program Development 6cp
- 013952 Research Perspectives 6cp

Total 18cp

**STM90538 Major core subjects (PopEdSocChange)**
- 013161 New Media and Social Change 6cp
- 013164 Narrative and Storymaking in Education and Change 6cp

Total 18cp

**STM90539 Major core subjects (OrgWrkpllrn)**
- 013160 Professional Learning and Practice 6cp
- 013162 Organisational Learning 6cp
- 013167 Contemporary Work and Learning 6cp

Total 18cp

**STM90540 Advertising stream**
- 58118 Principles of Advertising 8cp
- 58129 Advertising Campaign Practice 8cp

Total 16cp

**STM90541 Public Relations stream**
- 58117 Principles of Public Relations 8cp
- 58128 Strategic Public Relations 8cp

Total 16cp

**STM90542 Law graduate entrant stream**
Select 48 credit points from the following options:
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78204 Legal Perspectives on the Internet 8cp
- 78205 Regulatory Issues in the Broadband Environment 8cp
- 78165 Media and Entertainment Law and Regulation 8cp
- 78179 Telecommunications Law and Regulations 8cp
- 78177 Converging Media Industries: Regulatory Challenges 8cp
- 78183 Global Aspects of Intellectual Property Law 8cp
- 78185 Intellectual Property: Law and Policy 8cp
- 78189 Intellectual Property Commercialisation 8cp
- 78213 Communications and Technology: A Primer 8cp

Total 48cp

**STM90543 Non-law graduate entrant stream**
Select 40 credit points from the following options:
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78204 Legal Perspectives on the Internet 8cp
- 78205 Regulatory Issues in the Broadband Environment 8cp
- 78165 Media and Entertainment Law and Regulation 8cp
- 78179 Telecommunications Law and Regulations 8cp
- 78177 Converging Media Industries: Regulatory Challenges 8cp
- 78183 Global Aspects of Intellectual Property Law 8cp
- 78185 Intellectual Property: Law and Policy 8cp
- 78189 Intellectual Property Commercialisation 8cp
- 78213 Communications and Technology: A Primer 8cp

Total 40cp

**STM90544 Law graduate entrant stream**
Select 24 credit points from the following options:
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78204 Legal Perspectives on the Internet 8cp
- 78205 Regulatory Issues in the Broadband Environment 8cp
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78165 Media and Entertainment Law and Regulation 8cp
- 78179 Telecommunications Law and Regulations 8cp
- 78177 Converging Media Industries: Regulatory Challenges 8cp
- 78183 Global Aspects of Intellectual Property Law 8cp
- 78185 Intellectual Property: Law and Policy 8cp
- 78189 Intellectual Property Commercialisation 8cp
- 78213 Communications and Technology: A Primer 8cp

Total 48cp

**STM90544 Law graduate entrant stream**
Select 24 credit points from the following options:
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78204 Legal Perspectives on the Internet 8cp
- 78205 Regulatory Issues in the Broadband Environment 8cp
- 78203 Communications and Intellectual Property Law Overview 8cp
- 78165 Media and Entertainment Law and Regulation 8cp
- 78179 Telecommunications Law and Regulations 8cp
- 78177 Converging Media Industries: Regulatory Challenges 8cp
- 78183 Global Aspects of Intellectual Property Law 8cp
- 78185 Intellectual Property: Law and Policy 8cp
- 78189 Intellectual Property Commercialisation 8cp
- 78213 Communications and Technology: A Primer 8cp

Total 48cp
**STM90545 Non-law graduate entrance stream**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>78203 Communications and Intellectual Property Law Overview</td>
<td>8cp</td>
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<tr>
<td>Select 16 credit points from the following options:</td>
<td>16cp</td>
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<tr>
<td>78204 Legal Perspectives on the Internet</td>
<td>8cp</td>
</tr>
<tr>
<td>78205 Regulatory Issues in the Broadband Environment</td>
<td>8cp</td>
</tr>
<tr>
<td>78165 Media and Entertainment Law and Regulation</td>
<td>8cp</td>
</tr>
<tr>
<td>78179 Telecommunications Law and Regulations</td>
<td>8cp</td>
</tr>
<tr>
<td>78177 Converging Media Industries: Regulatory Challenges</td>
<td>8cp</td>
</tr>
<tr>
<td>78183 Global Aspects of Intellectual Property Law</td>
<td>8cp</td>
</tr>
<tr>
<td>78185 Intellectual Property: Law and Policy</td>
<td>8cp</td>
</tr>
<tr>
<td>78189 Intellectual Property Commercialisation</td>
<td>8cp</td>
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<tr>
<td>78213 Communications and Technology: A Primer</td>
<td>8cp</td>
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**STM90546 Major core subjects (AdEd)**

<table>
<thead>
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<th>Subject</th>
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<tbody>
<tr>
<td>013120 The Psychology of Adult Development</td>
<td>6cp</td>
</tr>
<tr>
<td>013166 Education in Policy Contexts</td>
<td>6cp</td>
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<tr>
<td>013168 Adult Education: Past, Present, Future</td>
<td>6cp</td>
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**STM90547 MEM stream**

<table>
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<tr>
<td>CBK90154 Core subjects choice</td>
<td>36cp</td>
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<tr>
<td>CBK90743 Electives</td>
<td>12cp</td>
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**STM90548 Master’s option**

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<th>Subject</th>
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<tr>
<td>57149 Information and Knowledge Management Major Paper</td>
<td>8cp</td>
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<tr>
<td>CBK90415 Elective</td>
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**STM90549 Core subjects (Adult Numeracy Teaching)**

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<tbody>
<tr>
<td>010070 Professional Practice 1 Language Literacy and Numeracy</td>
<td>6cp</td>
</tr>
<tr>
<td>010071 Professional Practice 2 Language Literacy and Numeracy</td>
<td>6cp</td>
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<tr>
<td>013831 Maths for Numeracy Teachers</td>
<td>6cp</td>
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<tr>
<td>013971 Teaching and Learning Numeracy</td>
<td>6cp</td>
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**STM90550 Core subjects**

<table>
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<th>Subject</th>
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<tr>
<td>S8101 Understanding Communication</td>
<td>8cp</td>
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<tr>
<td>S8102 Language and Discourse</td>
<td>8cp</td>
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<tr>
<td>S8103 Ideas in History</td>
<td>8cp</td>
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<tr>
<td>S8201 Communication and Cultural Industries and Practices</td>
<td>8cp</td>
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<tr>
<td>S8202 Regulating Communication: Law, Ethics, Politics</td>
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<td>S8301 Communication Practice Project</td>
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**STM90551 Graduate Entry**

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<td>120cp</td>
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<tr>
<td>CBK90395 Electives Nursing (UG)</td>
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**STM90552 Enrolled Nurse Entry 1**

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<td>CBK90352 Electives</td>
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<td>CBK90819 Choice</td>
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**STM90553 Enrolled Nurse Entry 2**

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<tr>
<td>STM90563 Core subjects (Advanced Diploma Entry EN)</td>
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<td>CBK90394 Electives Nursing (UG)</td>
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<td>CBK90819 Choice</td>
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**STM90554 Core subjects (Adult Literacy and Numeracy Teaching)**

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<tr>
<td>013096 Grammar and the Construction of Meaning</td>
<td>6cp</td>
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<tr>
<td>013117 Theory and Practice of Literacy</td>
<td>6cp</td>
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<tr>
<td>013122 Understanding Adult Education and Training</td>
<td>6cp</td>
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<tr>
<td>013141 Language Programming and Assessment</td>
<td>6cp</td>
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**STM90555 Core subjects (Media Arts and Production)**

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<tr>
<td>57167 Moving Image</td>
<td>8cp</td>
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<tr>
<td>57168 Sound and Interaction</td>
<td>8cp</td>
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<tr>
<td>57989 Mise-en-Scene</td>
<td>8cp</td>
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**STM90556 Core subjects (Non-fiction Writing Project)**

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<th>Subject</th>
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<tbody>
<tr>
<td>57163 Non-fiction Project Development</td>
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<tr>
<td>57164 Non-fiction Writing Project</td>
<td>16cp</td>
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**STM90557 Core subjects (Non-fiction Writing)**

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<tr>
<td>57031 Non-fiction Writing</td>
<td>8cp</td>
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<tr>
<td>57061 Issues in Documentary</td>
<td>8cp</td>
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<tr>
<td>57162 Memory and Life Writing</td>
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**STM90558 Law for Business**

This stream is designed to provide students with a comprehensive understanding of legal issues and developments that impact on the business sector. Building upon the core subject, Introduction to Law, students are provided with the opportunity to choose between a range of subjects to satisfy the learning requirements for career specialisation. The broad range of subject areas is designed to provide a legal framework to enhance the planning and application of current and future commercial strategies.

**Completion requirements**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>70110 Introduction to Law</td>
<td>6cp</td>
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<tr>
<td>79013 Industrial and Labour Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79014 Applied Company Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79018 Advanced Commercial Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79032 Competition and Consumer Law</td>
<td>6cp</td>
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<tr>
<td>Select 18 credit points from the following options:</td>
<td>18cp</td>
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<tr>
<td>79006 Intellectual Property Commercialisation</td>
<td>6cp</td>
</tr>
<tr>
<td>79011 Marketing Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79015 Banking Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79017 Taxation Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79019 Corporate Environmental Responsibility</td>
<td>6cp</td>
</tr>
<tr>
<td>79021 International Aspects of Australian Taxation Law</td>
<td>6cp</td>
</tr>
<tr>
<td>79022 GST and other Indirect Taxes</td>
<td>6cp</td>
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<tr>
<td>79026 Estate Planning (UG)</td>
<td>6cp</td>
</tr>
<tr>
<td>79027 Retirement Planning (UG)</td>
<td>6cp</td>
</tr>
<tr>
<td>79033 Insolvency Administration</td>
<td>6cp</td>
</tr>
<tr>
<td>79063 International Business Transactions and the Law</td>
<td>6cp</td>
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<tr>
<td>79006 Advanced Taxation Law</td>
<td>6cp</td>
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<td><strong>Total 48cp</strong></td>
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</table>

**STM90559 Foundations of Law**

This stream caters for business students interested in developing an in-depth understanding of the law. After developing skills which are essential to the study of law, students undertake fundamental law subjects of direct application to the business environment. Students then have an opportunity to specialise in areas relevant to their particular career focus.

**Completion requirements**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>70120 Legal Method and Research</td>
<td>6cp</td>
</tr>
<tr>
<td>70211 Contracts</td>
<td>8cp</td>
</tr>
<tr>
<td>70311 Torts</td>
<td>8cp</td>
</tr>
<tr>
<td>70317 Real Property</td>
<td>8cp</td>
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<tr>
<td>70327 Commercial Law</td>
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<td>Select 12 credit points from the following options:</td>
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<tr>
<td>76002 Sports Law</td>
<td>6cp</td>
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<tr>
<td>76023 Deceptive Trade Practices and Product Liability</td>
<td>6cp</td>
</tr>
<tr>
<td>76024 Environmental Law</td>
<td>6cp</td>
</tr>
<tr>
<td>76027 Competition Law</td>
<td>6cp</td>
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<tr>
<td>76115 Insolvency</td>
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<td>Course Code</td>
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<tr>
<td>78103</td>
<td>Common Law Legal Traditions</td>
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<td>78104</td>
<td>Postgraduate Legal Research</td>
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<td>78105</td>
<td>Negotiation</td>
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<tr>
<td>78106</td>
<td>Family Dispute Resolution</td>
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<tr>
<td>78107</td>
<td>Administration (Domestic)</td>
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<tr>
<td>78108</td>
<td>New Families, New Technologies</td>
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<tr>
<td>78109</td>
<td>Psychology and Dispute Resolution</td>
</tr>
<tr>
<td>78110</td>
<td>Contemporary Issues in Health Law</td>
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<tr>
<td>78111</td>
<td>Criminal Law in Biomedical Law</td>
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<tr>
<td>78112</td>
<td>Law and Medicine</td>
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<td>78113</td>
<td>Rights and Obligations in the International</td>
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<td>Legal System</td>
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<td>78114</td>
<td>Global Governance and Social Justice</td>
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<tr>
<td>78115</td>
<td>Law and Regulation</td>
</tr>
<tr>
<td>78116</td>
<td>Media and Entertainment Law and Regulation</td>
</tr>
<tr>
<td>78117</td>
<td>Regulators on Regulation</td>
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<tr>
<td>78118</td>
<td>Regulatory Strategies and Compliance</td>
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<td>78119</td>
<td>Crisis Negotiation</td>
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<td>Dispute Resolution in Civil Practice</td>
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<td>Negotiation</td>
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<td>78122</td>
<td>Workplace Dispute Resolution</td>
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<td>78123</td>
<td>Converging Media Industries Regulatory Challenges</td>
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<td>78124</td>
<td>Telecommunications Law and Regulations</td>
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<td>Global Aspects of Intellectual Property Law</td>
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<td>78126</td>
<td>Intellectual Property Commercialisation</td>
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<td>78127</td>
<td>Intellectual Property: Law and Policy</td>
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<td>78128</td>
<td>Intellectual Property and Traditional Knowledge</td>
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<td>Genetics and the Law</td>
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<td>Climate Law and Carbon Markets</td>
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<td>78133</td>
<td>International Development Law</td>
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<td>78134</td>
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<td>Patent Law</td>
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<td>Trade Marks Law</td>
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<td>Trade Marks Practice</td>
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<td>78140</td>
<td>Designs Law and Practice</td>
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<td>78141</td>
<td>Copyright Law</td>
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<td>78142</td>
<td>International Organisations</td>
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<td>78143</td>
<td>Taxation of Commercial Enterprises</td>
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<td>78144</td>
<td>Law and Literature</td>
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<td>78145</td>
<td>Communications and Intellectual Property Law</td>
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<td>78146</td>
<td>Law Overview</td>
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<td>78147</td>
<td>Animal Law and Policy</td>
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<td>Law of Slavery and Human Trafficking</td>
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<td>78149</td>
<td>Competition Law in a Global Context</td>
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<td>78150</td>
<td>Financial Services Law and Compliance in Australia</td>
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<td>78151</td>
<td>Environmental and Sustainable Development Law</td>
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<td>78152</td>
<td>International Trade Law and the Environment</td>
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<td>Commercial Equity</td>
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<td>Legal Perspectives on the Internet</td>
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<td>Commercial Trade and Transport Law</td>
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<td>78156</td>
<td>Mining Law and Regulation</td>
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<td>78157</td>
<td>International Commercial Arbitration</td>
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<td>78158</td>
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<tr>
<td>78159</td>
<td>Nursing Care of the Older Person</td>
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<tr>
<td>78160</td>
<td>Contemporary Indigenous Health and Wellbeing</td>
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<td>78161</td>
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<td>78162</td>
<td>Complex Nursing Care: Mental Health</td>
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<td>78163</td>
<td>Accountability in Nursing Practice</td>
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<tr>
<td>78164</td>
<td>Professionalism in Context</td>
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<tr>
<td>78165</td>
<td>Pathophysiology and Pharmacology 3</td>
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<td>78166</td>
<td>Integrated Nursing Concepts</td>
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<tr>
<td>78167</td>
<td>Workshops for Practice Readiness (Graduate Entry)</td>
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<tr>
<td>78168</td>
<td>Health Assessment and Nursing Therapeutics</td>
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<td>Pathophysiology and Pharmacology 2</td>
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<td>92319 Family and Children's Nursing</td>
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<td>92315 Nursing Care of the Older Person</td>
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<td>92316 Contemporary Indigenous Health and Wellbeing</td>
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<td>92319 Accountability in Nursing Practice</td>
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<td>92320 Professionalism in Context</td>
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<td>92321 Pathophysiology and Pharmacology 3</td>
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<td>92322 Integrated Nursing Concepts</td>
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<td>92323 Workshops for Practice Readiness (Graduate</td>
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<td>92324 Health Assessment and Nursing Therapeutics</td>
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<td>92325 Pathophysiology and Pharmacology 2</td>
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<td>92319 Family and Children's Nursing</td>
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**Total 120cp**

**STM90562 Core subjects (Certificate Entry EN)**

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<td>91528</td>
<td>Health and Homeostasis</td>
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<td>91529</td>
<td>Pathophysiology and Pharmacology 1</td>
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<td>91530</td>
<td>Pathophysiology and Pharmacology 2</td>
<td>6cp</td>
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<td>92014</td>
<td>Role Transition and Professional Identity</td>
<td>6cp</td>
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<tr>
<td>92032</td>
<td>Fundamentals of Mental Health Nursing (Enrolled Nurse Entry 1)</td>
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<td>Nursing Care of the Older Person</td>
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<td>92316</td>
<td>Complex Nursing Care: Medical Health</td>
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<td>92317</td>
<td>Contemporary Indigenous Health and Wellbeing</td>
<td>6cp</td>
</tr>
<tr>
<td>92318</td>
<td>Evidence for Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92319</td>
<td>Family and Children's Nursing</td>
<td>6cp</td>
</tr>
<tr>
<td>92320</td>
<td>Health and Society</td>
<td>6cp</td>
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<td>92322</td>
<td>Medical Surgical Nursing</td>
<td>6cp</td>
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<td>92325</td>
<td>Professionalism in Context</td>
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<td>92326</td>
<td>Accountability in Nursing Practice</td>
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<td>92327</td>
<td>Complex Nursing Care: Medical Surgical</td>
<td>6cp</td>
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<td>Integrated Nursing Concepts</td>
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<td>Select one of the following:</td>
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<td>92315 Nursing Care of the Older Person</td>
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<td></td>
<td>92319 Family and Children's Nursing</td>
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<td>92327 Total 108cp</td>
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**Total 108cp**
STM90563 Core subjects (Advanced Diploma Entry EN)

- Pathophysiology and Pharmacology 3 6cp
- Role Transition and Professional Identity 6cp
- Integrated Nursing Practice 6cp
- Complex Nursing Care: Mental Health 6cp
- Contemporary Indigenous Health and Wellbeing 6cp
- Evidence for Nursing 6cp
- Family and Children's Nursing 6cp
- Health and Society 6cp
- Medical Surgical Nursing 6cp
- Professionalism in Context 6cp
- Accountability in Nursing Practice 6cp
- Medical Surgical Nursing 6cp
- Health and Society 6cp
- Complex Nursing Care: Medical Surgical 6cp
- Integrative Nursing Concepts 6cp
- Pathophysiology and Pharmacology 1 6cp
- Pathophysiology and Pharmacology 2 6cp

Total 90cp

STM90564 Core subjects

- Group Project A: Urban Renewal 6cp
- Property Transactions 6cp
- Property Development Finance 6cp
- Advanced Property Development 6cp

Total 24cp

STM90566 Core subjects

- Information Systems Principles 6cp
- Database Principles 6cp
- Modelling 6cp
- Project Management and Quality Assurance 6cp
- Information Technology Professional and Society 6cp
- Strategic Information Technology Planning Project 6cp
- Programming Fundamentals 6cp
- Computer Fundamentals 6cp
- Networking Fundamentals 6cp

Total 66cp

STM90567 Core subjects (IT)

- Project Management and Quality Assurance 6cp
- Information Technology Professional and Society 6cp

Total 72cp

STM90568 Entrepreneurial stream

- Capstone Project in Business Planning 6cp
- Innovation and Entrepreneurship 6cp
- Accounting for Business Decisions A 6cp
- Marketing Foundations 6cp
- Fundamentals of Business Finance 6cp
- Information Systems Principles 6cp
- Interrogating Technology: Sustainability, Environment and Social Change 6cp

Total 48cp

STM90569 Professional Experience

- Professional Experience 6: Promoting Student Centred Learning 6cp
- Professional Experience 7: Reflection on Educational Practice 6cp
- Professional Experience 8: Analysing Current Issues in Australian Education 6cp

Total 48cp

STM90570 Key Learning Areas

- English Education 3 6cp
- Society, Science, Technology and the Environment 6cp

Total 72cp

STM90571 Contextual Studies

Free choice of electives.

STM90572 Honours

- Thesis Development and Appraisal 6cp
- Honours Thesis 1 12cp
- Research Seminar 6cp
- Honours Thesis 2 12cp

Total 36cp

STM90573 Professional Experience (SpecEd)

- Special Education Professional Experience 1: Assessment, Programming and Evaluation 6cp
- Special Education Professional Experience 2: Collaborative Participation in Inclusive Service Models 6cp
- Professional Experience 7: Reflection on Educational Practice 6cp
- Professional Experience 8: Analysing Current Issues in Australian Education 6cp

Total 48cp

STM90574 Special Education subjects

- Special Education 1: Managing Challenging Behaviours 6cp
- Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling 6cp
- Special Education 3: Educating Students who have Difficulties with Written Text 6cp
- Special Education 4: Numeracy Instruction for Students with Learning Difficulties and Disabilities 6cp
- Special Education 5: Educating Students with Moderate and High Support Needs 6cp
- Special Education 6: Educating Students with Delayed or Disordered Communication 6cp

Total 36cp

STM90579 Core subjects (Online Journalism)

- Online Journalism 8cp

Total 16cp

STM90580 Core subjects (PSM + SMD)

- Situated Media Installation Studio 12cp
- Graphic Visualisation 6cp
- Animation Genres Seminar 6cp
- Animation Concepts Seminar 6cp
- Animation Project A 12cp
- Animation Project B 12cp

Total 42cp

STM90581 Core subjects

- 3D Animation 6cp
- Film Animation 6cp
- Graphic Visualisation 6cp
- Animation Genres Seminar 6cp
- Animation Concepts Seminar 6cp
- Animation Project A 12cp
- Animation Project B 12cp

Total 54cp

STM90592 Core subjects

- Digital Theory 6cp
- Digital Master Class A 6cp
- Digital Architecture Project A 12cp
- Digital Master Class B 6cp
- Digital Architecture Project B 12cp

Total 42cp

STM90595 Domestic students

Select 72 credit points from the following options: 72cp

- MAJ06213 Advanced Nursing Practice 72cp
- MAJ06214 Nurse Practitioner 72cp
- MAJ07051 Education 72cp
- MAJ06215 Health Research 72cp

Total 72cp

STM90596 International students

Select 72 credit points from the following options: 72cp

- MAJ07051 Education 72cp
- MAJ08955 Management 72cp

Total 72cp

STM90597 Domestic students

- Evidence-based Practice 6cp
- Issues in Australian Health Services 6cp
- Sub-major/Four electives 24cp
- Electives 36cp

Total 48cp
### STM90598 International students
- Evidence-based Practice: 6cp
- Issues in Australian Health Services: 6cp
- CBK90513 Sub-major: Four electives: 24cp

### STM90599 Information Management stream
- Information Architecture and Design: 8cp
- Knowledge Management and the Organisation: 8cp
- Information Research and Data Analysis: 8cp
- People, Information and Knowledge: 8cp
- Organising Information: 8cp
- Discovering and Accessing Information: 8cp
- CBK90517 Electives: 8cp
- CBK90563 Master’s option (Information Management): 16cp

### STM90600 Knowledge Management stream
- Knowledge Management Strategies: 8cp
- CBK90521 Electives: 16cp
- Knowledge Management and the Organisation: 8cp
- CBK90565 Master’s option (Knowledge Management): 16cp
- Select one of the following: 8cp
  - Organising Information: 8cp
  - Enterprise Content Management: 8cp

### STM90602 Applied International Business
- Applied International Business: 6cp
- Select 6 credit points from the following options: 6cp
  - International Financial Management: 6cp
  - International Business Transactions and the Law: 6cp
  - Accounting for Overseas Transactions: 6cp
  - Global Strategic Management: 6cp

### STM90603 International Management Field Study
- International Management Field Study: 6cp
- Select 6 credit points from the following options: 6cp
  - International Financial Management: 6cp
  - International Business Transactions and the Law: 6cp
  - Accounting for Overseas Transactions: 6cp

### STM90606 Project (two semesters) (FT)
- Graduate Project 18cp (Part 1 of 2) (2 x 9cp): 9cp
- Graduate Project 18cp (Part 2 of 2) (6cp + 12cp): 12cp

### STM90607 Project (three semesters)
- Graduate Project 18cp (Part 1 of 3) (3 x 6cp): 6cp
- Graduate Project 18cp (Part 2 of 3) (3 x 6cp): 6cp
- Graduate Project 18cp (Part 3 of 3) (3 x 6cp): 6cp

### STM90608 Project (two semesters) (PT)
- Graduate Project 18cp (Part 1 of 2) (6cp + 12cp): 6cp
- Graduate Project 18cp (Part 2 of 2) (6cp + 12cp): 12cp

### STM90609 Project (two semesters) (FT)
- Graduate Project 24cp (Part 1 of 2) (9cp + 15cp): 9cp
- Graduate Project 24cp (Part 2 of 2) (9cp + 15cp): 15cp

### STM90610 Project (three semesters)
- Graduate Project 24cp (Part 1 of 3) (3 x 8cp): 8cp
- Graduate Project 24cp (Part 2 of 3) (3 x 8cp): 8cp
- Graduate Project 24cp (Part 3 of 3) (3 x 8cp): 8cp

### STM90611 Project (two semesters) (PT)
- Graduate Project 24cp (Part 1 of 2) (2 x 12cp): 12cp
- Graduate Project 24cp (Part 2 of 2) (2 x 12cp): 12cp

### STM90612 Project (three semesters) (PT)
- Graduate Project 30cp (Part 1 of 3) (6cp + 12cp + 12cp): 6cp
- Graduate Project 30cp (Part 2 of 3) (6cp + 12cp + 12cp): 12cp
- Graduate Project 30cp (Part 3 of 3) (6cp + 12cp + 12cp): 12cp

### STM90613 Project (two semesters)
- Graduate Project 30cp (Part 1 of 2) (2 x 15cp): 15cp
- Graduate Project 30cp (Part 2 of 2) (2 x 15cp): 15cp

### STM90614 Project (three semesters) (FT)
- Graduate Project 30cp (Part 1 of 3) (3 x 10cp): 10cp
- Graduate Project 30cp (Part 2 of 3) (3 x 10cp): 10cp
- Graduate Project 30cp (Part 3 of 3) (3 x 10cp): 10cp

### STM90629 Electives
- Management Project Design: 6cp
- Management Project: 6cp

### STM90631 Core subjects
- Management Skills: 6cp
- Strategic Supply Chain Management: 6cp
- Business Excellence: 6cp
- Managing Operations: 6cp

### STM90639 Core subjects (Property Development)
- Property Transactions: 6cp
- Advanced Property Development: 6cp
- Property Development Finance: 6cp
- Construction Cost Planning: 6cp

### STM90640 Core subjects (Secondary Education)
- The Secondary School: 6cp
- The Psychology of Adolescent Learning: 6cp
- Educating Students with Special Needs: 6cp
- Professional Learning Portfolio: 6cp
- Issues in Indigenous Australian Education: 6cp
- The Socio-cultural Contexts of Secondary Education: 3cp
- Designing Learning for a Digital Generation: 6cp

### STM90642 Core subjects
- Strategies for Interior Design: 6cp
- The Human Environment: 6cp
- Interior Design Communication: 6cp
- Researching Design History: 6cp
- Interior Design Communication: Digital Media: 6cp
- Interior Design Conceptualisation: 6cp
- Interior Materiality and Design Detail: 6cp
- Design Thinking: 6cp
- Interior Design History: 6cp
- Sustainable Human Futures: Residential Environments: 6cp
- Light, New Materials and Form: 6cp
- Hospitality Environments: 6cp
- Interior Elements and Design Detail: 6cp
- Consumer Environments: 6cp
- Directions in Spatial Experience: 6cp
- Interior Systems and Design Detail: 6cp
- Interpreting Cultural Space: 6cp
- Corporate Environments: 6cp
- Research Based Designing: 6cp
- Interior Design Major Project: Research and Conceptualisation: 12cp
- Interior Design Professional Project: 12cp
- Professional Practice for Interior Designers: 6cp
- Interior Design Major Project: Realisation: 12cp
### STM90643 Core subjects
- Aesthetics in Industrial Design 6cp
- Understanding Three-dimensional Form 6cp
- Integrated Product Design Communications 6cp
- Problem Solving in Industrial Design 6cp
- Integrated Product Design Digital Communication 6cp
- Researching Design History 6cp
- Structure, Form and Material in Industrial Design 6cp
- Computer-aided Industrial Design 6cp
- Ergonomics and Industrial Design 6cp
- Material Manipulation 6cp
- Sustainability and Design 6cp
- Product Technology 6cp
- Ecodesign Practice 6cp
- Industrial Design Directions 6cp
- Industrial Design Theory 6cp
- Integrated Product Design Professional Communication 6cp
- Research Based Designing 6cp
- Industrial Design Major Project: Conceptualisation 12cp
- Industrial Design Professional Project 12cp
- Integrated Product Design Major Project: Realisation 12cp
- Industrial Design Professional Practice 6cp

**Total 156cp**

### STM90644 Core subjects
- Thinking Fashion 6cp
- An Introduction to Patternmaking and Construction 6cp
- Fashion Communication: An Introduction 6cp
- Researching Design History 6cp
- Fashion Cultures 6cp
- Foundations in Patternmaking and Construction 6cp
- Fashion Illustration Fundamentals 6cp
- Design Thinking 6cp
- Fashion, Gender and Identity 6cp
- Couture Techniques 6cp
- Studio: Bespoke Fashion 6cp
- Fashion Communication: Drawing and Digital Media 6cp
- New Textiles and Technologies 6cp
- Dress, Body and Couture 6cp
- Advanced Fashion and Textile Techniques 6cp
- Men’s Collection 6cp
- Women’s Collection 6cp
- Fashion and Textile Research Dissertation 6cp
- Research Based Designing 6cp
- Fashion and Textile Research and Conceptualisation 12cp
- Professional Practice for Fashion and Textile Designers 6cp
- Fashion and Textile Design Major Project 24cp

**Total 156cp**

### STM90645 Core subjects (Management)
- Management Skills 6cp
- Change Management 6cp
- International Management 6cp
- Managing Work and People 6cp
- Human Resource Management 6cp
- Managing Operations 6cp
- Management and Organisations 6cp
- Managing for Sustainability 6cp
- Global Strategic Management 6cp

**Total 54cp**

### STM90646 Core subjects (Management)
- Management Skills 6cp
- Change Management 6cp
- International Management 6cp
- Managing Work and People 6cp
- Human Resource Management 6cp
- Managing Operations 6cp
- Management and Organisations 6cp
- Managing for Sustainability 6cp
- Global Strategic Management 6cp

**Total 54cp**

### STM90647 Core subjects
- Managing People and Organisations 6cp
- Innovation and Entrepreneurship 6cp
- Management Skills 6cp
- Human Resource Management 6cp

**Total 24cp**

### STM90648 Core subjects
- Fashion and Textile Design Major Project 24cp
- Professional Practice for Fashion and Textiles Research Dissertation 6cp
- Fashion and Textile Research and Conceptualisation 6cp
- Fashion, Gender and Identity 6cp
- Couture Techniques 6cp
- Fashion Communication: Drawing and Digital Media 6cp
- Fashion for Digital Media 6cp
- Studio: Bespoke Fashion 6cp
- Fashion Communication: Drawing and Digital Media 6cp
- New Textiles and Technologies 6cp
- Dress, Body and Couture 6cp
- Advanced Fashion and Textile Techniques 6cp
- Men’s Collection 6cp
- Women’s Collection 6cp
- Fashion and Textile Research Dissertation 6cp
- Research Based Designing 6cp
- Fashion and Textile Research and Conceptualisation 12cp
- Professional Practice for Fashion and Textile Designers 6cp
- Fashion and Textile Design Major Project 24cp

**Total 138cp**
## STM9065 Core subjects

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<th>Credit Points</th>
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<td>99201</td>
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<tr>
<td>99202</td>
<td>Global Work</td>
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<tr>
<td>99203</td>
<td>Global Knowledges</td>
<td>8cp</td>
</tr>
<tr>
<td>99204</td>
<td>Global Governance</td>
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<td>99205</td>
<td>Global Work Project</td>
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<tr>
<td>99206</td>
<td>Global Problem Solving</td>
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## STM90655 Civil and Environmental stream

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<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
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<tr>
<td>99202</td>
<td>Global Work</td>
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<tr>
<td>99203</td>
<td>Global Knowledges</td>
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<td>99205</td>
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<td>99206</td>
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## STM90665 Italy Regional Studies

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<td>CBK90500</td>
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<tr>
<td>976431</td>
<td>Contemporary Italy</td>
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## STM90666 France Regional Studies

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<th>Subject</th>
<th>Credit Points</th>
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<tbody>
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<td>976411</td>
<td>Contemporary France</td>
<td>8cp</td>
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<tr>
<td>CBK90497</td>
<td>French Language and Culture</td>
<td>24cp</td>
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## STM90667 Germany Regional Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>976421</td>
<td>Contemporary Germany</td>
<td>8cp</td>
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<tr>
<td>CBK90499</td>
<td>German Language and Culture</td>
<td>24cp</td>
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## STM90668 Core subjects (IT)

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<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>31265</td>
<td>Communication for IT Professionals</td>
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<td>31266</td>
<td>Introduction to Information Systems</td>
<td>6cp</td>
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<td>48023</td>
<td>Programming Fundamentals</td>
<td>6cp</td>
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<td>31268</td>
<td>Web Systems</td>
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<td>31269</td>
<td>Business Requirements Modelling</td>
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<td>31270</td>
<td>Networking Essentials</td>
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<td>31271</td>
<td>Database Fundamentals</td>
<td>6cp</td>
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<tr>
<td>31272</td>
<td>Project Management and the Professional</td>
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<td>31257</td>
<td>Information System Development Mechatronics</td>
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<td>31247</td>
<td>Collaborative Business Processes</td>
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<td>Business Process and IT Strategy</td>
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<td>48024</td>
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<td>6cp</td>
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<td>48440</td>
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## STM90669 Core subjects (Industry)

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<td>Industry Study 1</td>
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<td>31492</td>
<td>Industry Project 2</td>
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<td>Industry Study 2</td>
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## STM90670 Civil stream

<table>
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<td>6cp</td>
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<tr>
<td>48310</td>
<td>Introduction to Civil and Environmental Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48320</td>
<td>Surveying</td>
<td>6cp</td>
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<tr>
<td>48321</td>
<td>Engineering Mechanics</td>
<td>6cp</td>
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<tr>
<td>48330</td>
<td>Soil Behaviour</td>
<td>6cp</td>
</tr>
<tr>
<td>48331</td>
<td>Mechanics of Solids</td>
<td>6cp</td>
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<tr>
<td>48340</td>
<td>Construction</td>
<td>6cp</td>
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<tr>
<td>48349</td>
<td>Structural Analysis</td>
<td>6cp</td>
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<td>48352</td>
<td>Construction Materials</td>
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<td>48360</td>
<td>Geotechnical Engineering</td>
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<tr>
<td>48362</td>
<td>Hydraulics and Hydrology</td>
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<td>48370</td>
<td>Road and Transport Engineering</td>
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<tr>
<td>48641</td>
<td>Fluid Mechanics</td>
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<td>60101</td>
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## STM90671 Civil and Environmental stream

<table>
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<th>Code</th>
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<tbody>
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<td>48221</td>
<td>Engineering Computations</td>
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<td>48310</td>
<td>Introduction to Civil and Environmental Engineering</td>
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## STM90672 Electrical stream

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<td>48441</td>
<td>Introductory Digital Systems</td>
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<td>48521</td>
<td>Fundamentals of Electrical Engineering</td>
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<td>48520</td>
<td>Electronics and Circuits</td>
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## STM90673 ICT stream

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<tbody>
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<td>Introduction to Electrical Engineering</td>
<td>6cp</td>
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<tr>
<td>48441</td>
<td>Introductory Digital Systems</td>
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<tr>
<td>48471</td>
<td>ICT Analysis</td>
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<td>48481</td>
<td>ICT Design</td>
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<tr>
<td>48510</td>
<td>Introduction to Electrical Engineering</td>
<td>6cp</td>
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<tr>
<td>48541</td>
<td>Signal Theory</td>
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<tr>
<td>48720</td>
<td>Network Fundamentals</td>
<td>6cp</td>
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Select 36 credit points from the following options:

- CBK90862 Software Innovation choice 36cp
- CBK90863 Telecommunications Innovation choice 36cp
- CBK90864 Computer Systems Innovation choice 36cp

## STM90674 Mechanical stream

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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<tr>
<td>48221</td>
<td>Engineering Computations</td>
<td>6cp</td>
</tr>
<tr>
<td>48331</td>
<td>Mechanics of Solids</td>
<td>6cp</td>
</tr>
<tr>
<td>48510</td>
<td>Introduction to Electrical Engineering</td>
<td>6cp</td>
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<tr>
<td>48600</td>
<td>Mechanical Design 1</td>
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<tr>
<td>48610</td>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48620</td>
<td>Fundamentals of Mechanical Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48621</td>
<td>Manufacturing Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48642</td>
<td>Strength of Engineering Materials</td>
<td>6cp</td>
</tr>
<tr>
<td>48650</td>
<td>Mechanical Design 2</td>
<td>6cp</td>
</tr>
<tr>
<td>48670</td>
<td>Mechanical and Mechatronic Design</td>
<td>6cp</td>
</tr>
</tbody>
</table>

Select 24 credit points from the following options:

- CBK90865 Mechanical Innovation choice 24cp

## STM90675 Mechanical and Mechatronic stream

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<thead>
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<th>Code</th>
<th>Subject</th>
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<tbody>
<tr>
<td>48023</td>
<td>Programming Fundamentals</td>
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<tr>
<td>48331</td>
<td>Mechanics of Solids</td>
<td>6cp</td>
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<tr>
<td>48510</td>
<td>Introduction to Electrical Engineering</td>
<td>6cp</td>
</tr>
<tr>
<td>48610</td>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>6cp</td>
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<tr>
<td>48620</td>
<td>Fundamentals of Mechanical Engineering</td>
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<tr>
<td>48621</td>
<td>Manufacturing Engineering</td>
<td>6cp</td>
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<tr>
<td>48622</td>
<td>Mechatronics 1</td>
<td>6cp</td>
</tr>
<tr>
<td>48623</td>
<td>Mechatronics 2</td>
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<td>Strength of Engineering Materials</td>
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<td>Mechanical Design 2</td>
<td>6cp</td>
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<tr>
<td>48670</td>
<td>Mechanical and Mechatronic Design</td>
<td>6cp</td>
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Select 12 credit points from the following options:

- CBK90866 Mechanical and Mechatronics Innovation choice 12cp

## STM90676 Physical Sciences stream

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>STM90679</td>
<td>Foundation stream (Physical Sciences)</td>
<td>48cp</td>
</tr>
</tbody>
</table>

Select 96 credit points from the following options:

- CBK90572 Major choice (Applied Chemistry) 96cp
- CBK90655 Major choice (Applied Physics Nanotechnology) 96cp
**StM90677 Life Sciences stream**

STM90680 Foundation stream (Life and Environmental Sciences) 48cp

Select 96 credit points from the following options: 96cp

- CBK90573 Major choice (Biomedical Biotechnology) 96cp
- CBK90654 Major choice (Environmental and Marine Biology) 96cp
- STM90694 No specified major (Life and Environmental Sciences) 96cp

Total 144cp

**StM90678 Mathematical Sciences stream**

STM90681 Foundation stream (Mathematical Sciences) 48cp

CBK90574 Major choice (Mathematical Sciences) 96cp

Total 144cp

**StM90679 Foundation stream (Physical Sciences)**

33190 Mathematical Modelling for Science 6cp
65111 Chemistry 1 6cp
68101 Foundations of Physics 6cp

Select one of the following: 6cp

- 91161 Cell Biology and Genetics
- 91107 The Biosphere

33290 Statistics and Mathematics for Science 6cp
65212 Chemistry 2 6cp
68201 Physics in Action 6cp
68070 Introduction to Materials 6cp

Total 48cp

**StM90680 Foundation stream (Life and Environmental Sciences)**

91161 Cell Biology and Genetics 6cp
65111 Chemistry 1 6cp
91107 The Biosphere 6cp
33116 Statistical Design and Analysis 6cp
65212 Chemistry 2 6cp
68041 Physical Aspects of Nature 6cp
91120 GIS and Remote Sensing 6cp
91121 Aquatic Ecology 6cp
91145 Environmental Protection and Management 6cp

Select 12 credit points from the following options: 12cp

- 91363 Animal Behaviour and Physiology
- 91270 Plant Physiology and Ecophysiology
- 91159 Environmental Forensics
- 65621 Environmental Chemistry

Total 48cp

**StM90681 Foundation stream (Mathematical Sciences)**

35140 Introduction to Quantitative Management 6cp
35101 Introduction to Linear Dynamical Systems 6cp
35151 Introduction to Statistics 6cp
CBK90796 Foundation subject choice A 6cp
35100 Introduction to Sample Surveys 6cp
35152 Introduction to Analysis and Multivariable Calculus 6cp
35111 Applications of Discrete Mathematics 6cp
CBK90797 Foundation subject choice B 6cp

Total 48cp

**STM90682 Core subjects (Chemistry)**

- 65202 Organic Chemistry 1 6cp
- 65307 Physical Chemistry 1 6cp
- 65410 Chemical Safety and Legislation 6cp
- 65306 Analytical Chemistry 1 6cp
- 65411 Inorganic Chemistry 1 6cp
- 65508 Organic Chemistry 2 6cp
- 65409 Analytical Chemistry 2 6cp
- 65607 Physical Chemistry 2 6cp

Total 48cp

**STM90683 Core subjects (Physics and Nanotechnology)**

- 33360 Mathematics for Physical Science 6cp
- 68075 Nanomaterials 6cp
- 68316 Applied Electronics and Interfacing 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 68315 Imaging Science 6cp
- 68413 Quantum Physics 6cp
- 68320 Scanning Probe and Electron Microscopy 6cp
- 68613 Optics and Nanophotonics 6cp

Total 48cp

**STM90684 Core subjects (Medical and Molecular Biology)**

- 91320 Metabolic Biochemistry 6cp
- 91314 General Microbiology 6cp
- 91321 Molecular Biology 1 6cp
- CBK90584 Medical and Molecular Biology choice 18cp
- CBK90579 Elective 1 6cp
- CBK90580 Elective 2 6cp

Total 48cp

**STM90685 Core subjects (Environmental Biology)**

- 91110 Experimental Design and Sampling 6cp
- 91154 Ecology 6cp
- 91149 Geological Processes 6cp
- 91120 GIS and Remote Sensing 6cp
- 91121 Aquatic Ecology 6cp
- 91145 Environmental Protection and Management 6cp

Select 12 credit points from the following options: 12cp

- 91363 Animal Behaviour and Physiology 6cp
- 91270 Plant Physiology and Ecophysiology 6cp
- 91159 Environmental Forensics 6cp
- 65621 Environmental Chemistry 6cp

Total 48cp

**STM90686 Core subjects (Mathematics)**

- 35212 Computational Linear Algebra 6cp
- 35241 Optimisation in Quantitative Management 6cp
- 35363 Stochastic Models 6cp
- 35232 Advanced Calculus 6cp
- 35231 Differential Equations 6cp
- 35333 Regression Analysis 6cp

Select 12 credit points from the following options: 12cp

- 65111 Chemistry 1 6cp
- 68101 Foundations of Physics 6cp
- 91161 Cell Biology and Genetics 6cp
- 65212 Chemistry 2 6cp
- 68201 Physics in Action 6cp
- 68070 Introduction to Materials 6cp
- 91107 The Biosphere 6cp
- 91123 Biocomplexity 6cp
- 91400 Human Anatomy and Physiology 6cp
- 65202 Organic Chemistry 1 6cp
- 65410 Chemical Safety and Legislation 6cp
- 65307 Physical Chemistry 1 6cp
- 65409 Analytical Chemistry 2 6cp
- 65508 Organic Chemistry 2 6cp
- 65411 Inorganic Chemistry 1 6cp
- 65607 Physical Chemistry 2 6cp
- 68075 Nanomaterials 6cp
- 68316 Applied Electronics and Interfacing 6cp
- 68606 Solid-state Science and Nanodevices 6cp
- 68315 Imaging Science 6cp
- 68413 Quantum Physics 6cp
- 68320 Scanning Probe and Electron Microscopy 6cp
- 68513 Optics and Nanophotonics 6cp
- 35252 Mathematical Statistics 6cp
- 35335 Mathematical Methods 6cp
- 35340 Quantitative Management Practice 6cp
- 35342 Nonlinear Methods in Quantitative Management 6cp
- 35344 Network and Combinatorial Optimisation 6cp
- 35355 Quality Control 6cp
- 35356 Design and Analysis of Experiments 6cp
- 35361 Stochastic Processes 6cp
- 35383 High Performance Computing 6cp
- 35391 Seminar (Mathematics) 6cp
- 35393 Seminar (Statistics) 6cp

Total 48cp

**STM90687 Core subjects (PLT)**

STM90792 Core subjects 18cp
CBK90526 Option (Law) 6cp

Total 24cp
Choosing to not specify a major gives students the opportunity to science degree with a cross-disciplinary mix of studies. To specialise in, or students who have decided to undertake a general career path, students who have not yet decided which area they wish Flexibility can be important to students who are uncertain of their study areas in line with their interests, abilities and career aspirations. Then, once they have experienced a range of science disciplines in the in, or students who have decided to undertake a general science degree with a cross-disciplinary mix of studies. Choosing to not specify a major gives students the opportunity to experience and confirm their interests and expectations, and assists them to tease out the study area they are interested in. It also enables students to focus on their career choice according to their interests while keeping their options open.

In addition, students can choose this major for their first year of study. Then, once they have experienced a range of science disciplines in the first year, they can go on to choose a major at the end of their first year. The majors on offer are: applied chemistry, applied physics, biotechnology, biomedical science, environmental biology, environmental forensics, marine biology, mathematics, medical science, nanotechnology and statistics.

Students can also decide against choosing a major but choose a range of second- and third-year subjects to match their interests and aspirations, leading to a Bachelor of Science award without a specified major. Students can also include sub-majors in other course areas such as business, law, information technology, communication.

Completion requirements
- CBK90598 Level 2 subject choice (Life and Environmental Sciences) 36cp
- CBK90599 Level 3 subject choice (Life and Environmental Sciences) 36cp
- CBK90801 Sub-major/Electives 24cp

Total 96cp

**STM90695 Core subjects**

- 32555 Fundamentals of Software Development 6cp
- 32524 LANS and Routing 6cp
- 32557 Enabling Enterprise Information Systems 6cp
- 32606 Database 6cp

Total 24cp

**STM90696 Core subjects**

- 22747 Accounting for Managerial Decisions 6cp
- 22742 Financial Management 6cp
- 79708 Contemporary Business Law 6cp
- 23706 Economics for Management 6cp
- 22748 Financial Reporting and Analysis 6cp
- 22705 Management Planning and Control 6cp
- 22753 Cost Management and Analysis 6cp
- 22754 Corporate Accounting 6cp
- 77947 Companies and Securities Law 6cp
- 22730 Auditing and Assurance Services 6cp
- 22743 Business Valuation and Financial Analysis 6cp
- 77938 Introduction to Taxation Law 6cp
- 21878 Organisational Dialogue: Theory and Practice 6cp

Total 78cp

**STM90697 No specified major (Physical Sciences)**

The flexibility of this major gives students the opportunity to choose study areas in line with their interests, abilities and career aspirations. Flexibility can be important to students who are uncertain of their career path, students who have not yet decided which area they wish to specialise in, or students who have decided to undertake a general science degree with a cross-disciplinary mix of studies. Choosing to not specify a major gives students the opportunity to experience and confirm their interests and expectations, and assists them to tease out the study area they are interested in. It also enables students to focus on their career choice according to their interests while keeping their options open.

In addition, students can choose this major for their first year of study. Then, once they have experienced a range of science disciplines in the first year, they can go on to choose a major at the end of their first year. Majors on offer are: applied chemistry, applied physics, biotechnology, biomedical science, environmental biology, environmental forensics, marine biology, mathematics, medical science, nanotechnology and statistics.

Students can also decide against choosing a major but choose a range of second- and third-year subjects to match their interests and aspirations, leading to a Bachelor of Science award without a specified major. Students can also include sub-majors in other course areas such as business, law, information technology, communication.

Completion requirements
- CBK90606 Level 2 subject choice (Physical Sciences) 36cp
- CBK90607 Level 3 subject choice (Physical Sciences) 36cp
- CBK90801 Sub-major/Electives 24cp

Total 96cp

**STM90698 PDHPE stream**

- 27149 Performance Studies 1: Gymnastics and Dance 6cp
- 27249 Performance Studies 2: Dance and Athletics 6cp
- 27349 Performance Studies 3: Sport and Aquatics 6cp
- CBK90610 Elective 6cp

Total 24cp

**STM90699 Control thread**

- 48560 Introductory Control 6cp
- 48580 Advanced Control 6cp
- 49274 Advanced Robotics 6cp

Total 18cp
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<th>Code</th>
<th>Course</th>
<th>Credit Points</th>
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<tr>
<td>48581</td>
<td>Digital Electronics</td>
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<td>Analog Electronics</td>
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<td>48434</td>
<td>Embedded Software</td>
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<td>48450</td>
<td>Real-time Operating Systems</td>
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<td>48451</td>
<td>Advanced Digital Systems</td>
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<td>48571</td>
<td>Electrical Machines</td>
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<td>48561</td>
<td>Power Electronics and Drives</td>
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<td>Renewable Energy Systems</td>
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<td>22319</td>
<td>Financial Statement Analysis (Capstone)</td>
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<td>22320</td>
<td>Accounting for Business Combinations</td>
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<td>22420</td>
<td>Accounting Standards and Regulations</td>
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<td>Taxation Law</td>
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<td>Investment Analysis</td>
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<td>Corporate Finance: Theory and Practice</td>
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<td>Property Transactions</td>
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<td>Design Studio: The Digital Image</td>
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<td>Design Studio: Photographic Intervention</td>
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<td>Business Intelligence 1: Advanced Analysis</td>
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<td>Understanding the Person: Life Transitions</td>
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<td>Health and Society</td>
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<td>Workshops for Practice Readiness 2</td>
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<td>15611</td>
<td>Managing Local Enterprise</td>
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<td>Corporate Management and Organisational Change</td>
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<td>24742</td>
<td>New Product Management</td>
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<td>24713</td>
<td>Marketing Channel Management</td>
<td>6cp</td>
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<tr>
<td>24760</td>
<td>Pricing and Revenue Management</td>
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<td>24736</td>
<td>Marketing Communications</td>
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<tr>
<td>24738</td>
<td>Strategic International Marketing</td>
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<td>24706</td>
<td>Strategic Services Marketing</td>
<td>6cp</td>
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<td>24750</td>
<td>Marketing Analytics</td>
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<td>24707</td>
<td>Strategic Business Marketing</td>
<td>6cp</td>
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### STM90719 Marketing Research
- 24578 Readings in Marketing 6cp
- 24750 Marketing Analytics 6cp
- 24759 Research Design and Data Collection Tools 6cp
- 24757 Research Methodology and Data Analysis Tools 6cp

**Total 24cp**

### STM90720 Core subjects (Marketing)
- 24730 Marketing Strategy 6cp
- 24710 Buyer Behaviour 6cp
- 24734 Marketing Management 6cp
- 24720 Marketing Research 6cp

**Total 24cp**

### STM90721 Core subjects (Marketing)
- 24730 Marketing Strategy 6cp
- 24710 Buyer Behaviour 6cp
- 24734 Marketing Management 6cp
- 24720 Marketing Research 6cp
- 24790 Business Project: Marketing 6cp

**Total 30cp**

### STM90722 Core subjects
- 27642 Tourism Marketing 6cp
- 27184 Dimensions of Tourism 6cp
- 27344 Research Foundations for Leisure Sport and Tourism 6cp
- 27185 The Tourist Experience 6cp
- 27648 The Tourism Business 6cp
- 27732 Tourism and Sustainability 6cp
- 27116 e-Marketing and Management of Services 6cp
- 27324 Strategic Management in Leisure, Sport and Tourism Organisations 6cp
- 27253 Planning for Sustainable Destinations 6cp
- 27342 Sociocultural Concepts for Leisure, Sport and Tourism 6cp
- 27348 Critical Issues in Global Tourism 6cp
- 23115 Economics for Business 6cp

**Total 72cp**

### STM90724 Core subjects
- 86004 Design Studio: Foundations in Spatial Language 12cp
- 86005 Design Studio: Foundations in Spatial Design 12cp
- 86008 Context: Image and Making (Representation) 6cp
- 86009 Context: Image and Making (Generative Methods) 6cp
- 86112 Design Studio: Experiments 12cp
- 86113 Context: Experiments 6cp
- 86114 Context: Inhabitations 6cp
- 86221 Context: Explorations 6cp
- 86222 Context: Interdisciplinary 6cp
- 86223 Design Studio: Industry 12cp
- 85502 Researching Design History 6cp
- 85503 Design Thinking 6cp

**Total 96cp**

### STM90725 Core subjects
- 86321 Design Studio: Investigation 12cp
- 86322 Design Studio: Directions 12cp
- 86400 Design Studio: Realisation 24cp

**Total 48cp**

### STM90726 Core subjects (Games Development)
- 31080 Digital Multimedia 6cp
- 31262 Introduction to Computer Game Design 6cp
- 31264 Introduction to Computer Graphics 6cp
- 31102 Game Design Studio 1 6cp
- 31103 Game Design Studio 2 6cp
- 48024 Applications Programming 6cp
- 31241 3D Computer Animation 6cp
- 31249 Computer Graphics Rendering Techniques 6cp
- 31251 Data Structures and Algorithms 6cp
- 31263 Introduction to Computer Game Programming 6cp
- 31777 Human-Computer Interaction 6cp
- 31104 Programming for Special Effects 6cp

Select 12 credit points from the following options: 12cp

**Total 48cp**

### STM90727 Strategy stream
- 24306 Services Marketing 6cp
- 24205 Business-to-Business Marketing 6cp
- 24220 International Marketing 6cp

**Total 18cp**

### STM90728 Research stream
- 24902 Research Methodology and Data Analysis Techniques 6cp
- 24510 Advertising Research 6cp
- 24908 Research Design and Data Collection Techniques 6cp

**Total 18cp**

### STM90729 Core subjects
- 32144 Technology Research Preparation 6cp
- 32118 Mobile Communications and Computing 6cp
- 32524 LANS and Routing 6cp
- 32547 UNIX Systems Programming 6cp

**Total 24cp**

### STM90730 Core subjects
- 32118 Mobile Communications and Computing 6cp
- 32524 LANS and Routing 6cp
- 32547 UNIX Systems Programming 6cp

**Total 18cp**

### STM90731 Core subjects (Accounting and Finance)
- 25741 Capital Markets 6cp
- 25765 Corporate Finance 6cp
- 22746 Financial Reporting and Analysis 6cp
- 22754 Corporate Accounting 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 25742 Financial Management 6cp
- 79708 Contemporary Business Law 6cp

**Total 48cp**

### STM90732 Core subjects
- 21741 Managing Operations 6cp
- 21743 Business Excellence 6cp

Select one of the following: 6cp
- 21779 Management Skills
- 21877 Strategic Procurement
- 21797 Strategic Supply Chain Management

**Total 24cp**

### STM90733 Core subjects (HRM)
- 21720 Human Resource Management 6cp
- 21779 Management Skills 6cp
- 21800 Management and Organisations 6cp
- 21844 Managing Work and People 6cp

**Total 24cp**

### STM90734 Core subjects (Management)
- 21717 International Management 6cp
- 21779 Management Skills 6cp
- 21827 Change Management 6cp
- 21844 Managing Work and People 6cp

**Total 24cp**

### STM90735 Core subjects (Management)
- 21720 Human Resource Management 6cp
- 21741 Managing Operations 6cp
- 21800 Management and Organisations 6cp
- 21832 Managing for Sustainability 6cp
- 21779 Management Skills 6cp
- 21827 Change Management 6cp
- 21717 International Management 6cp
- 21844 Managing Work and People 6cp

**Total 48cp**

### STM90736 Core subjects (Operations Supply Chain Management)
- 21844 Managing Work and People 6cp
- 21741 Managing Operations 6cp
- 21743 Business Excellence 6cp

Select one of the following: 6cp
- 21779 Management Skills
- 21877 Strategic Procurement
- 21797 Strategic Supply Chain Management

**Total 30cp**
**STM90737 Core subjects (HRM)**

- International Human Resources Management 6cp
- Industrial Relations 6cp
- Performance and Talent Management 6cp
- Change Management 6cp
- Management Skills 6cp
- Human Resource Management 6cp
- Managing Work and People 6cp
- Management and Organisations 6cp

Total 48cp

**STM90738 Core subjects**

- Accounting for Managerial Decisions 6cp
- Management and Organisations 6cp
- Organisational Dialogue: Theory and Practice 6cp

Total 24cp

**STM90739 Core disciplinary subjects (Environmental Biology)**

- Experimental Design and Sampling 6cp
- Ecology 6cp
- Geological Processes 6cp
- GIS and Remote Sensing 6cp
- Aquatic Ecology 6cp
- Environmental Protection and Management 6cp

Total 36cp

**STM90740 Core subjects**

- Animation Studio: Foundations in Animation Language 12cp
- Context: 2D Animation Introduction 6cp
- Researching Design History 6cp
- Animation Studio: Foundations in Animation Design 12cp
- Context: 3D Animation Introduction 6cp
- Design Thinking 6cp
- Animation Studio: Narrative Investigations 12cp
- Context: 3D Animation Advanced 6cp
- Context: 2D Animation Advanced 6cp
- Context: Design for Three-dimensional Computer Animation 6cp
- Context: Experiments for Animation and VFX 6cp
- Animation Studio: Animation Industry Project 12cp

Total 96cp

**STM90742 Core stream**

- Perspectives on Law 8cp
- Legal Method and Research 6cp
- Criminal Law 8cp
- Torts 8cp
- Contracts 8cp
- Australian Constitutional Law 8cp
- Real Property 8cp
- Equity and Trusts 8cp
- Corporate Law 8cp
- Administrative Law 8cp
- Evidence and Criminal Procedure 6cp
- Civil Litigation 6cp
- Ethics and Professional Conduct 6cp

Total 96cp

**STM90743 Stream**

- Trade Marks Law 6cp
- Trade Marks Practice 6cp
- Preparing for Intellectual Property Practice 6cp
- Select 6 credit points from the following options: 6cp
- Research Paper 6cp
- Intellectual Property Commercialisation 6cp
- Copyright Law 6cp

Total 24cp

**STM90744 First-year subjects**

- Foundations of Midwifery Practice 6cp
- Anatomy and Physiology: Pregnancy and Childbirth 6cp
- The Meaning of Birth 6cp
- Evidence-based Practice (Midwifery) 6cp
- Becoming a Midwife 6cp
- Midwifery Practice 2: Supporting Women 6cp
- Midwifery Practice 1: Preparation for Practice 6cp
- Transitions to Parenthood 6cp

Total 48cp

**STM90745 Second-year subjects**

- Essentials of Pathophysiology 6cp
- Introductory Pharmacology and Microbiology 6cp
- Complex Newborn Care 6cp
- Complex Pregnancy 6cp
- Complex Labour, Birth and Puerperium 6cp
- Midwifery Practice 3: Complex Pregnancy 6cp
- Aboriginal and Torres Strait Islander: Women and Babies 6cp
- Midwifery Practice 4: Complex Labour, Birth and Puerperium 6cp

Total 48cp

**STM90746 Third-year subjects**

- Australian Health Care System 6cp
- International Perspectives in Midwifery 6cp
- Challenges in Midwifery Practice 6cp
- Midwifery as Primary Health Care 6cp
- Professional Practice 6cp
- Midwifery Practice 5: Working with Women 6cp
- Midwifery Practice 6: Transitions to being a Midwife 6cp
- Emergencies in Maternity Care 6cp

Total 48cp

**STM90747 Core subjects**

- Animation Studio: Advanced Animation Practice 12cp
- Animation Studio: Animation Project Pre-production 12cp
- Animation Studio: Animation Project/Production 24cp

Total 48cp

**STM90748 Public Relations**

- Managing Public Communication Strategies 8cp
- Media Relations 8cp
- Strategic Communication and Negotiation 8cp

Total 24cp

**STM90749 Organisational Change and Communication**

- Organisational Change and Communication 8cp
- Managing Organisational Communication 8cp
- Learning in Organisations 8cp

Total 24cp

**STM90750 Integrated Communication**

- Marketing and Corporate Communication 8cp
- Media Relations 8cp
- Inventive Media Advertising 8cp

Total 24cp

**STM90751 Core foundation subjects**

- Foundations of Communication 8cp
- Communicating with Publics 8cp
- Intercultural and International Communication 8cp

Total 24cp

**STM90752 Core subjects (Operations Supply Chain Management)**

- Managing Work and People 6cp
- Managing Operations 6cp
- Business Excellence 6cp
- Strategic Procurement 6cp
- Strategic Supply Chain Management 6cp
- Project Management Principles 6cp
- Quantitative Management Practice 6cp
- Legal Aspects of Contracts Administration 6cp
- Management Project 6cp
- Global Strategic Management 6cp

Total 60cp
### STM90753 Procurement option (Operations Supply Chain Management)
- STM90752 Core subjects (Operations Supply Chain Management) 60cp
- CBK90840 Electives (Operations Supply Chain Manager) 12cp
- Total 72cp

### STM90754 Standard option (Operations Supply Chain Management)
- STM90736 Core subjects (Operations Supply Chain Management) 30cp
- CBK90385 Electives (Operations and Supply Chain Management) 42cp
- Total 72cp

### STM90755 Core stream
- 96015 Clinical Practice 1 6cp
- 96016 Clinical Practice 2 12cp
- 96017 Clinical Practice 3 6cp
- 96001 Introduction to Pharmacy 6cp
- 96002 Concepts in Pharmaceutical Sciences 6cp
- 96003 Pharmaceutics 6cp
- 96004 Professional Services 1 6cp
- 96005 Professional Services 2 6cp
- 96006 Integrated Therapeutics 1 6cp
- 96007 Drug Disposition 6cp
- 96008 Evidence Based Practice 6cp
- 96009 Professional Services 3 6cp
- 96010 Integrated Therapeutics 2 6cp
- 96011 Primary Health Care 6cp
- 96012 Professional Services 4 6cp
- 96013 Integrated Therapeutics 3 6cp
- 96014 Molecule to Market 6cp
- Total 108cp

### STM90756 Core stream
- 96018 International Placement 1 12cp
- 96019 International Placement 2 12cp
- Total 24cp

### STM90757 Clinical Management
- 92603 Managing Quality, Risk and Cost in Health Care 6cp
- 92932 Management for Clinicians 6cp
- 92917 Using Health Care Data for Decision Making 6cp
- 92887 Organisational Management in Health Care 6cp
- Total 24cp

### STM90759 Health Services Management
- 92917 Using Health Care Data for Decision Making 6cp
- 92606 Issues in Australian Health Services 6cp
- 92887 Organisational Management in Health Care 6cp
- 21720 Human Resource Management 6cp
- Total 24cp

### STM90760 Health Services Management
- 92050 Policy, Power and Politics in Health Care 6cp
- 92847 Planning and Evaluating Health Services 6cp
- 92051 Health Services Management and Legal Issues 6cp
- 92023 Health Services Resource Management 6cp
- Total 24cp

### STM90761 Health Research Level 1
- Select 24 credit points from the following options: 24cp
  - 92790 Evidence-based Practice 6cp
  - 92927 Evidence-based Practice (Midwifery) 6cp
  - 92612 Research in Health 6cp
  - 92972 Health Care Research Methodology 6cp
  - 92926 Epidemiology and Population Health 6cp
  - 92973 Developing Health Care Theory 6cp
  - 92974 Investigating Health Care Change 6cp
- Total 24cp

### STM90762 Health Research Level 2
- 98725 Dissertation in Health Research 1 12cp
- 98726 Dissertation in Health Research 2 12cp
- Total 24cp

### STM90763 Core subjects (Health Services Management)
- 92050 Policy, Power and Politics in Health Care 6cp
- 92603 Managing Quality, Risk and Cost in Health Care 6cp
- 92917 Using Health Care Data for Decision Making 6cp
- 92926 Epidemiology and Population Health 6cp
- 92887 Organisational Management in Health Care 6cp
- Total 36cp

### STM90766 Research stream
- 32933 Research Project 6cp
- Select 6 credit points of electives 6cp
- Total 12cp

### STM90767 Core subjects
- 57024 Managing Public Communication Strategies 8cp
- 57035 Organisational Change and Communication 8cp
- Total 16cp

### STM90768 Communication Management
- STM90767 Core subjects 16cp
- Select 8 credit points from the following options: 8cp
- CBK90847 Electives 8cp
- Total 24cp

### STM90769 Core masters subjects
- 57028 Research for Communication Professionals 8cp
- 57182 Rethinking Media 8cp
- Total 16cp

### STM90770 No specified major
- STM90767 Core subjects 16cp
- Select 8 credit points from the following options: 8cp
- CBK90847 Electives 8cp
- Total 24cp

### STM90771 Management core
- 21511 Global Operations and Supply Chain Management 6cp
- 21510 The Global Context of Management 6cp
- Total 12cp

### STM90772 Management
- STM90771 Management core 12cp
- Select 12 credit points from the following options: 12cp
- CBK90850 Management electives 12cp
- Total 24cp

### STM90773 Training and Human Resource Development
- 013120 The Psychology of Adult Development 6cp
- 013122 Understanding Adult Education and Training 6cp
- 013136 Developing People and Teams 6cp
- 013142 Adult Learning and Program Development 6cp
- 013162 Organisational Learning 6cp
- 013165 Leading Learning in the Workplace 6cp
- Total 36cp

### STM90774 Standard options (Management)
- STM90511 Core subjects 30cp
- CBK90613 Major choice 42cp
- Total 72cp

### STM90775 Core subjects (Community and Not-for-Profit Mgmt)
- 21766 Managing Community Organisations 6cp
- 21767 Not-for-Profit Sector Theory and Context 6cp
- 21778 Resource Mobilisation 6cp
- 21817 Volunteer Management 6cp
- 21879 Corporate Social Responsibility and Social Impact 6cp
- 27729 Legal Issues for the Experience and Not-for-Profit Industries 6cp
- 22747 Accounting for Managerial Decisions 6cp
- 21751 Management Research Methods 6cp
- Total 48cp
STM9077 Community and Not-for-Profit Management
STM9077 Core subjects (Community and Not-for-Profit Mgmt) 48cp
CBK90855 Electives (Community and Not-for-Profit Management) 24cp
Total 72cp
STM90777 Master’s option with project
57997 Professional Communication Project 8cp
CBK90345 Electives 8cp
Total 16cp
STM90778 Physical sciences stream
91239 Human Pathophysiology 6cp
91400 Human Anatomy and Physiology 6cp
91429 Physiological Bases of Human Movement 6cp
Total 12cp
STM90779 Biomedical sciences stream
68316 Applied Electronics and Interfacing 6cp
91239 Human Pathophysiology 6cp
Total 12cp
STM90780 Core subjects (SecEd)
013403 The School in the Context of Contemporary Society 6cp
013404 Inclusive Education: Students with Learning Difficulties and Disabilities 6cp
013405 Teaching, Learning and Motivation 6cp
013406 Understanding Adolescents 6cp
013407 Perspectives on Aboriginal Education 6cp
013408 Designing Learning for a Digital Generation 6cp
013409 Professional Learning 6cp
013410 Capstone: Professional Vision in Practice 6cp
Total 48cp
STM90781 Business Studies/Economics subjects (SecEd)
013438 Business Studies/Economics Teaching Methods 1 6cp
013439 Business Studies/Economics Teaching Methods 2 6cp
Total 12cp
STM90782 Business Studies/Economics/History subjects (SecEd)
013438 Business Studies/Economics Teaching Methods 1 6cp
013437 History Teaching Method 6cp
Total 12cp
STM90783 Business Studies/Economics/Society and Culture subjects (SecEd)
013438 Business Studies/Economics Teaching Methods 1 6cp
013440 Society and Culture Teaching Method 6cp
Total 12cp
STM90784 Business Studies/Economics/Legal Studies subjects (SecEd)
013438 Business Studies/Economics Teaching Methods 1 6cp
013441 Legal Studies Teaching Method 6cp
Total 12cp
STM90785 History/Society and Culture subjects (SecEd)
013437 History Teaching Method 6cp
013440 Society and Culture Teaching Method 6cp
Total 12cp
STM90786 History/Legal Studies subjects (SecEd)
013437 History Teaching Method 6cp
013441 Legal Studies Teaching Method 6cp
Total 12cp
STM90787 Society and Culture/Legal Studies subjects (SecEd)
013440 Society and Culture Teaching Method 6cp
013441 Legal Studies Teaching Method 6cp
Total 12cp
STM90788 Core subjects
84610 Inside Design 6cp
84111 Understanding Three-dimensional Form 6cp
84112 Integrated Product Design Communications 6cp
84611 Design Thinking in Integrated Product Design 6cp
84115 Informing Integrated Product Design 6cp
84114 Integrated Product Design Digital Communication 6cp
84711 User-Centred Design 12cp
84710 Research Methods in Integrated Product Design 6cp
84811 Smart Design 12cp
84134 Integrated Product Design Professional Communication 6cp
85202 Interdisciplinary Lab A 6cp
85302 Interdisciplinary Lab B 6cp
85502 Researching Design History 6cp
85503 Design Thinking 6cp
Total 96cp
STM90789 Core subjects (Honours)
84905 Design in the Wild 12cp
84906 Professional Studio 12cp
Total 24cp
STM90790 Core subjects
83119 Thinking Fashion 6cp
83621 Studio: Foundations in Patternmaking and Construction 1 6cp
83622 Studio: Fashion Illustration Fundamentals 1 6cp
83231 Fashion Cultures 6cp
83882 Foundations in Patternmaking and Construction 2 6cp
83233 Fashion Illustration Fundamentals 2 6cp
83341 Studio: Bespoke Fashion 6cp
83341 Fashion, Gender and Identity 6cp
83721 Studio: Fashion Illustration Exploration 6cp
83722 Studio: Body Mapping 6cp
83723 Textile Lab: New Technologies 6cp
83821 Studio: Men's Collection 12cp
83822 Studio: Women's Collection 12cp
83823 Fashion and Textiles Professional Practice 6cp
85503 Design Thinking 6cp
85502 Researching Design History 6cp
85302 Interdisciplinary Lab A 6cp
85302 Interdisciplinary Lab B 6cp
Total 120cp
STM90791 Core subjects
87631 Design Studio: Text and Image 1 12cp
87100 VC Project: Ways of Seeing 6cp
87632 Design Studio: Text and Image 2 12cp
87222 VC Project: Symbols and Systems 6cp
87731 Design Studio: Visual Experimentations 12cp
87441 VC Studies: Context of Visual Communication 6cp
87443 VC Project: Typography in Context 6cp
87445 VC Project: Visualising Experience 6cp
87831 Design Studio: Visual Communication and Strategic Design 12cp
87832 Design Studio: Design Practice 12cp
87665 VC Project: The Community 6cp
85503 Design Thinking 6cp
85502 Researching Design History 6cp
85302 Interdisciplinary Lab A 6cp
85302 Interdisciplinary Lab B 6cp
Total 120cp
STM90792 Core subjects
75422 Transactional Practice 6cp
75423 Litigation and Estate Practice 6cp
75424 Legal and Professional Skills 6cp
75411 Practical Experience 0cp
Total 18cp
### STM90793 Options
- CBK09090 Options 30cp
- STM90972 Core subjects 18cp
  - Total 48cp

### STM90794 Core subjects
- 11501 Architectural Practice: Advocacy 6cp
- 11502 Architectural Practice: Finance and Project Management 6cp
- 11503 Architectural Practice: The Profession 6cp
- 11504 Architectural Practice: The City 6cp
- 11551 Masters Architectural Design Studio 1 12cp
- 11552 Masters Architectural Design Studio 2 12cp
- 11553 Masters Architectural Design Studio 3 12cp
  - Select one of the following:
    - 11554 Masters Architectural Design Studio 4 12cp
    - 11555 Masters Architectural Design Thesis 12cp
  - Total 72cp

### STM90796 Biomedical thread
- CBK90881 Level 1 Subjects 24cp
- CBK90882 Level 2 Subjects 12cp
  - Total 36cp

### STM90797 Biomedical thread
- CBK90883 Level 1 Subjects 24cp
- CBK90882 Level 2 Subjects 12cp
  - Total 36cp

### STM90798 Economics stream (Honours)
- 23917 Advanced Macroeconomics 6cp
- 23907 Advanced Microeconomics 6cp
- 23908 Economic Modelling 6cp
- 23918 Economic Policy Seminar 6cp
- 23909 Thesis Proposal in Economics (Honours) 6cp
- 23910 Thesis in Economics (Honours) 18cp
  - Total 48cp

### STM90799 Finance stream (Honours)
- 25921 Theory of Financial Decision Making 6cp
- 25922 Financial Econometrics 6cp
- 25924 Advanced Corporate Finance 6cp
- 25923 Derivative Security Pricing 6cp
- 25928 Thesis Proposal in Finance (Honours) 6cp
- 25929 Thesis in Finance (Honours) 18cp
  - Total 48cp

### STM90800 China Stream
- CBK90487 Chinese Language and Culture 16cp
- 979510 Contemporary China 8cp
  - Total 24cp

### STM90801 Japan Stream
- CBK90488 Japanese Language and Culture 16cp
- 979511 Contemporary Japan 8cp
  - Total 24cp

### STM90802 France Stream
- CBK90490 French Language and Culture 16cp
- 979512 Contemporary France 8cp
  - Total 24cp

### STM90803 Spain Stream
- CBK90491 Spanish Language and Culture 16cp
- 979513 Contemporary Spain 8cp
  - Total 24cp

### STM90804 Germany Stream
- CBK90492 German Language and Culture 16cp
- 979514 Contemporary Germany 8cp
  - Total 24cp

### STM90805 Italy Stream
- CBK90493 Italian Language and Culture 16cp
- 979515 Contemporary Italy 8cp
  - Total 24cp

### STM90806 Canada (Quebec) Stream
- CBK90490 French Language and Culture 16cp
- 979516 Contemporary Canada (Quebec) 8cp
  - Total 24cp

### STM90807 Switzerland Stream
- 979517 Contemporary Switzerland 8cp
- CBK90895 Swiss Language Options 16cp
  - Total 24cp

### STM90808 Chile Stream
- CBK90491 Spanish Language and Culture 16cp
- 979518 Contemporary Latin(o) Americas 8cp
  - Total 24cp

### STM90809 Mexico Stream
- CBK90491 Spanish Language and Culture 16cp
- 979518 Contemporary Latin(o) Americas 8cp
  - Total 24cp

### STM90810 Argentina Stream
- CBK90491 Spanish Language and Culture 16cp
- 979518 Contemporary Latin(o) Americas 8cp
  - Total 24cp

### STM90811 Colombia Stream
- CBK90491 Spanish Language and Culture 16cp
- 979518 Contemporary Latin(o) Americas 8cp
  - Total 24cp

### STM90812 Latino USA Stream
- CBK90491 Spanish Language and Culture 16cp
- 979518 Contemporary Latin(o) Americas 8cp
  - Total 24cp

### STM90813 core subjects (Editing and Publishing)
- 57046 Professional Editing 8cp
- 57053 Book Publishing and Marketing 8cp
  - Total 16cp

### STM90814 core subjects (Screenwriting)
- 57101 Advanced Screenwriting 8cp
- 57142 Writing for the Screen 8cp
  - Total 16cp

### STM90815 Core subjects
- 57031 Non-fiction Writing 8cp
- 57041 Narrative Writing 8cp
- 57134 Theory and Creative Writing 8cp
  - Total 24cp

### STM90816 Core subjects (Creative Writing)
- 57186 Writing Project 1 8cp
- 57189 Writing Project 2 8cp
- 57190 Writing Seminar 8cp
  - Total 24cp

### STM90817 Core subjects (Journalism)
- 57011 Research and Reporting for Journalism 8cp
  - Total 8cp

### STM90818 Core subjects (Journalism)
- 57011 Research and Reporting for Journalism 8cp
- 57151 Storytelling with Sound and Image 8cp
  - Total 16cp

### STM90819 Core subjects (Journalism)
- 57011 Research and Reporting for Journalism 8cp
- 57013 Journalism Studies 8cp
- 57185 Journalism Major Project 1 8cp
- 57186 Journalism Major Project 2 8cp
  - Total 40cp
010039 Teaching English for Academic Purposes
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject is designed for students who aim to teach programs that support students studying at tertiary level in English. This may include teaching in tertiary preparation courses, academic language support programs, or teaching subject areas in English-medium universities where some or all students are non-native speakers of English. It is also relevant to teaching in senior secondary schools as a pathway to academic study. The subject takes account of the contexts of English for academic purposes (EAP) in Australia and internationally. The content addresses aspects of the nature of academic English, issues of program design and provision, modes of pedagogy, and practices in testing and assessment. Participants engage with theories of language and learning as they have relevance to the context of teaching EAP. They apply theoretical knowledge in explorations of their own practice and that of others in the field.

010040 Program Development and Evaluation in Indigenous Education and Development
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject extends to areas of adult learning to look at evaluation, the development of programs and the complex range of considerations and perspectives that need to be considered in designing and evaluating programs in Indigenous education and development.

010041 Research, Ethics and Indigenous Cultural Heritage
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject focuses on issues, considerations and protocols for educators and researchers working with Indigenous peoples and communities.

010042 Student Learning and Teaching Approaches
6cp; on campus [6 x 3hr face-to-face workshops during semester, plus online learning/negotiated independent learning for participants unable to attend some workshops]; availability: not offered to exchange and study abroad students
Participants in this subject develop their understanding of key ideas from research on student learning and teaching in higher education to enable them to reflect on and review their teaching from the perspective of this research. They develop their understanding of a model that relates teaching to student learning and is underpinned by empirical research on student learning and teaching in higher education, so that they become more aware of students' approaches to their learning, the influences of the learning environment on students' approaches to learning, and relations between learning approaches and the quality of the learning outcome. Participants relate this to their approaches to teaching, the nature of good teaching and teaching strategies which encourage high quality student learning. They seek feedback on their own teaching from students and peers and make use of this feedback and the research to plan changes to their teaching to improve the learning environment for students.

010043 Course Design and Assessment
6cp; 6 x 3hr seminars approx. 2 wks apart during semester; availability: not offered to exchange and study abroad students
This subject aims to develop university teachers' ability to design courses and subjects that provide an environment for meaningful student learning in higher education. The subject looks at the context within which subjects and courses are developed and how course design policies shape the development of course goals and subject objectives. Participants in the subject develop an understanding of the principles of constructive alignment (Biggs, 2003) as a method for achieving consistency between objectives assessment and teaching and learning activities. Participants relate the features of effective assessment to their own subject design, with attention to issues of equity, validity, the involvement of students in assessment choices, marking efficiencies, and the provision of effective feedback on student work. This subject enables university teachers to explore a range of methods for improving courses and subjects in order to ensure an effective learning environment for students.

010044 Scholarly Teaching and Learning Project
6cp; 1 x 1hr seminar, once a month project adviser; availability: not offered to exchange and study abroad students
This subject draws together and builds on what participants have learned in other course subjects and their previous teaching experience. It involves participants in undertaking a scholarly project focused on understanding and improving selected aspects of their teaching and learning. Participants choose an area that they would like to investigate and undertake one plan-act-observe-reflect cycle in which they plan a change to their teaching or subject, implement the change, collect information about its effects, and reflect on the information. The project is informed by scholarly literature related to higher education in general and/or to teaching and learning in the participant's discipline. Participants may choose to develop their project further and communicate it to achieve publishable outcomes.

010045 Reflective Academic Practice
6cp; 1 x 3hr seminar, work experience adviser; availability: not offered to exchange and study abroad students
This subject enables participants to extend their awareness of the broader context of academic work in a practice-oriented university. Participants have the choice of exploring a wide range of topics relevant to their academic work, including research supervision or research-led teaching in their discipline. Credit can be gained towards subject completion by participating in professional development activities offered in the University such as the LEAP modules on entrepreneurship or project management. The subject also provides an opportunity for participants to reflect on their learning over the course as a whole and identify practical learning outcomes for their own practice.

010050 Student Welfare: Implications for Teaching and Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
Living in contemporary society presents many challenges affecting students' readiness to learn and engage with others. This subject describes and analyses some welfare issues currently dealt with in the primary school context. Issues addressed include children's rights, youth suicide, grief, drug and alcohol problems, domestic violence, child abuse, bullying, adoption, and eating disorders. An important aim is to assist future teachers to follow referral procedure, identify appropriate resources and use strategies for coping with these situations when they arise. Presentation of this subject involves visiting experts in their field. It does not have a counselling function.

010051 Beginning Teaching: Surviving and Thriving
6cp
Undergraduate
This subject addresses some of the challenges that beginning teachers meet in their first year of teaching, including interaction with parents, membership of the wider school community, collegial and professional interactions, and management of professional roles and responsibilities. Students explore strategies that assist them to thrive, rather than merely survive, as beginning teachers. The hidden curriculum of the primary school is examined as a means of equipping students with a repertoire of skills that facilitate a smooth transition to becoming a professional primary school teacher.

010052 Environmental Sustainability Education
6cp
Elective
This subject investigates ways in which education for sustainability can be incorporated in the F–6 curriculum, in particular HSIE/ Geography and Science and Technology, and the mandate for its inclusion. Education for sustainability involves recognising the need to understand the world around us and how it works, natural and human/social systems, and how these things interrelate. The subject also investigates and supports the development of the skills and experience necessary in implementing, integrating and evaluating related teaching/learning experiences in current curriculum documents and those that are under development. The
subject addresses values such as a commitment to an understanding of environmental sustainability, as well causes and effects related to social justice, globalisation, economics, intercultural understanding, democratic processes and responsible uses of technologies.

010070 Professional Practice 1 Language Literacy and Numeracy
6cp; 2hpw, weekly (TESOL students in Autumn semester), block (non-TESOL students); availability: not offered to exchange and study abroad students
Undergraduate
This subject develops initial practical teaching skills through the observation and analysis of lessons; the planning and delivery of several short, micro teaching activities; undertaking a practicum placement; and the keeping of a reflective journal.

010071 Professional Practice 2 Language Literacy and Numeracy
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject extends the skills developed in Professional Practice 1, in the areas of lesson planning and implementation, and classroom management. The focus in this subject is on supervised classroom practice and the development of a reflective stance in teaching.

010072 Professional Practice 1 Vocational Education and Training
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject aims to develop the professional skills of teachers/trainers within the vocational education and training (VET) sector to meet the learning needs of adults and young adults. The subject links to industry training requirements and draws upon theories of adult and adolescent learning. It requires participants to develop their teaching/training proficiency through the design, delivery and evaluation of lessons. Practical experiences take place within the university setting and at participants’ workplaces; feedback is provided by DVD filming, peers, and UTS professional staff.

The subject is one of a pair. Professional Practice 1 focuses primarily on the teacher’s role in providing direct instruction, including demonstration of practical skills. Professional Practice 2 is concerned with the teacher as designer and facilitator of student-centred learning. Both subjects additionally aim to develop participants’ written communication skills.

010073 Professional Practice 2 Vocational Education and Training
6cp; availability: not offered to exchange and study abroad students
Undergraduate
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate
This subject aims to develop the professional skills of teachers/trainers within the vocational education and training (VET) sector to meet the learning needs of adults and young adults. The subject links to industry training requirements and draws upon theories of adult and adolescent learning. It requires participants to develop their teaching/training proficiency through the design, delivery and evaluation of lessons. Practical experiences take place within the university setting and at participants’ workplaces; feedback is provided by DVD filming, peers, and UTS professional staff.

The subject is one of a pair. Professional Practice 1 focuses primarily on the teacher’s role in providing direct instruction, including demonstration of practical skills. Professional Practice 2 is concerned with the teacher as designer and facilitator of student-centred learning. Both subjects additionally aim to develop participants’ written communication skills.

010074 Professional Practice 1 Human Resource Development
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject is designed to assist students develop their skills in both the practice of HRD and the capacity for critical reflection on their own practice and learning. Within this subject students analyse their own practice and consider how theories and principles discussed in other subjects forming part of this program have impacted on their own human resource development practice.

010075 Professional Practice 2 Human Resource Development
6cp; availability: not offered to exchange and study abroad students
Undergraduate
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

010076 Professional Practice 1 Organisational Learning
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject has a focus on the continued development of professional skills of teaching/training and the facilitation of learning and workplace training/education for organisational learning. The subject has a work-based focus, prepares students for their workplace experience and is supported by theories of adult learning. It involves students in demonstrating the acquisition of skills through practical implementation of new knowledge. This may occur via demonstration of teaching/training skills, design and presentation or facilitation of learning activities and other specific applications underpinning knowledge to effective problem solving in a variety of learning contexts in organisations.

010077 Professional Practice 2 Organisational Learning
6cp, availability: not offered to exchange and study abroad students
Requisites: 010076 Professional Practice 1 Organisational Learning
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate
This subject has a focus on the continued development of professional skills of teaching/training and the facilitation of learning, workplace training/education and the work experiences of adults. The subject has a work-based focus and is supported by theories of adult learning. It involves students demonstrating the acquisition of skills through practical implementation of new knowledge, presentation to peers and critical reflection on personal learning from an approved workplace experience of 100 hours.

010078 Professional Practice 1 Vocational and Workplace Learning
6cp
Undergraduate
Further information on this subject is available from UTS: Education.

010079 Professional Practice 2 Vocational and Workplace Learning
6cp
Undergraduate
Further information on this subject is available from UTS: Education.

010140 Exchange Elective 1 (Education)
6cp
Further information on this subject is available from UTS: Education.
010141 Exchange Elective 2 (Education)  
6cp  
Further information on this subject is available from UTS: Education.

010142 Exchange Elective 3 (Education)  
6cp  
Further information on this subject is available from UTS: Education.

010143 Exchange Elective 4 (Education)  
6cp  
Further information on this subject is available from UTS: Education.

012208 English Education 1  
6cp; availability: exchange and study abroad students with faculty approval  
Undergraduate  
This subject introduces students to the central role of language in the development of primary students' intellectual, social and psychosocial development. Students are introduced to the NSW K–6 English syllabus and the drama strand of the NSW K–6 creative arts syllabus, and the projected national curriculum. Through a program of structured engagement, students develop knowledge and skills in a repertoire of language practices related to the teaching and learning of language through literature and drama. The subject develops students' knowledge about the English language (printed texts, visual and digital formats), informed appreciation of literature (Australian and international texts) and growing repertoires of English usage (spoken and written modes). Through engagement with the subject, students improve their standards of personal literacy in the context of primary studies and primary school teaching. The subject examines a broad range of genres and the crucial aspects of language in the key learning areas.

012209 English Education 2  
6cp; availability: exchange and study abroad students with faculty approval  
Requisite(s): 012208 English Education 1 OR 024211 English Education 1  
Undergraduate  
The aim of this subject is to develop students' knowledge and understanding of the nature of literacies with a focus on the knowledge, skills and strategies needed to teach children to read and write and to use reading and writing as a useful, enjoyable part of their lives. This subject follows on from the introductory English Education 1 and focuses on the development of reading and writing in K–6. Students engage in analysing different texts and contexts and develop proficiency in planning, implementing, monitoring and evaluating the literacy development of children K–6. Students also undertake reading and writing activities of their own. Through a functional approach to learning language, students come to appreciate a diversity of language contexts within a multicultural society and gain increasing facility in describing how language works, not only in reading and writing but also across all of the key learning areas. Current theories/research about reading and writing are examined with a focus on the implications for teaching/learning in the primary school context.

012210 Mathematics Teaching and Learning 1  
6cp; availability: exchange and study abroad students with faculty approval  
Undergraduate  
This subject encourages students to become aware of their beliefs about the nature of mathematics and the teaching and learning of mathematics and examine the implications that these beliefs have for their teaching. Students become familiar with various theories of learning that are dominant in mathematics education. This subject encourages students to use problem-solving approaches in the teaching and learning of mathematics. Students are introduced to ways of teaching and learning concepts, particularly in measurement. The study of measurement concepts involves the modelling of participative and collaborative learning approaches.

012211 Mathematics Teaching and Learning 2  
6cp; availability: exchange and study abroad students with faculty approval  
Requisite(s): 012210 Mathematics Teaching and Learning 1 OR 025211 Mathematics Teaching and Learning 1  
Undergraduate  
This subject develops students' understanding of how to work mathematically in the teaching and learning aspect of the NSW K–6 mathematics syllabus. Students use current approaches to develop their own understanding of geometrical and number concepts and to develop strategies and techniques for teaching geometry and number concepts in the primary school. Participative and collaborative learning approaches are employed and the use of reflection and documentation of learning through portfolios is continued. The subject assists students to develop critical thought about, and reflection on, the teaching of mathematics in the primary school.

012212 Mathematics Teaching and Learning 3  
6cp; availability: exchange and study abroad students with faculty approval  
Requisite(s): 012210 Mathematics Teaching and Learning 1 OR 025211 Mathematics Teaching and Learning 1 AND 012211 Mathematics Teaching and Learning 2  
Undergraduate  
This subject allows students to further develop their philosophy of teaching and learning in mathematics. It examines the construction of, and builds students' understanding in, sound methodological principles for the development of concepts in rational number, introductory algebraic concepts, elementary number theory, and basic ideas in probability and statistics. The subject also identifies and analyses some of the critical issues in contemporary mathematics education, and develops an awareness of their implications for teaching and learning. Students are encouraged to reflect on their own learning about, and teaching of, the NSW K–6 mathematics syllabus. The link with the school-based field component of the corresponding professional experience subject enables students to apply and reflect upon mathematics teaching and learning episodes.

012213 Learning in Science and Technology 1  
6cp; availability: exchange and study abroad students with faculty approval  
Undergraduate  
This subject introduces students to learning and teaching science and technology in the primary school (K–6). Throughout this subject students are encouraged to articulate, reflect on and develop their theories of learning and teaching in science and technology based on their reading of the literature and experiences in the classroom and with primary school-aged children. Students develop their understanding of the nature of science and technology, of current theories of learning and teaching science and technology, and of research that informs those understandings. Students learn how to access information in a variety of forms from a range of sources, and how to critically evaluate information and ideas; a preparation for lifelong learning and for developing scientific, technological, information and language literacy. Students are guided to use the Board of Studies Foundation Statements to develop teaching and learning units and teaching approaches. The subject locates learning and teaching in intellectual, practical, creative, social, gender-inclusive and culturally sensitive contexts.

012214 Learning in Science and Technology 2  
6cp; availability: exchange and study abroad students with faculty approval  
Requisite(s): 012213 Learning in Science and Technology 1 OR 028221 Learning in Science and Technology 1  
Undergraduate  
This subject builds on Learning in Science and Technology 1 and continues to assist student development as a lifelong learner. It guides students in undertaking independent and collaborative inquiry, leading to the creation of new ideas and a critical understanding of established knowledge. Students are supported as they take increased responsibility for their own learning about science and technology concepts, and about pedagogies and approaches to teaching and learning with primary aged students and with programming in this key learning area. In requiring students to use a variety of sources
012215 Social and Environmental Education 1
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject develops a student’s understanding of the NSW primary curriculum area of human society and its environment. Students acquire proficiency in planning, presenting, assessing and evaluating pupils’ learning experiences at the K–6 levels, consistent with current syllabus approaches. Students are also encouraged to critically reflect on the wider challenges of preparing Australian school children to become community, national and global citizens. It is anticipated that through studying this subject, prospective teachers do more than inform themselves about the social sciences, but that they hone their skills as social scientists, formulating and expressing the views and questions that social scientists (and all of us) do.

012216 Social and Environmental Education 2
6cp; availability: exchange and study abroad students with faculty approval
Requisite(s): 012215 Social and Environmental Education 1 OR 029211 Social and Environmental Education
Undergraduate
This subject develops students’ understanding of social justice issues through a critical examination of the media. It extends students’ knowledge of the civics component of the NSW K-6 human society and its environment syllabus and builds pedagogical skill in its implementation. In this subject students investigate current social issues as a means for exploring and understanding social justice matters. One aim of this subject is to enable students to interpret and respond to the media more critically and discerningly, with a view to helping their primary students do likewise. Investigation of social responses includes the use of media, consumer power and political processes to effect change. This subject also focuses on a study of devices used by the media, and their role in persuading readers/listeners of certain points of view. At the completion of the subject, students are expected to have a well-developed understanding of the impact that the media have on public opinion, including the power of persuasion through advertising, as well as language bias in news and documentary reports. Students also deconstruct their own learning, and implications for the teaching of topics and content they choose in their own classrooms.

012217 Personal Development, Health and Physical Education 1
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The aim of this subject is to develop students’ knowledge and understanding of the nature of the discipline of personal development, health and physical education (PDHPE), its relationship to supporting the development of the health and wellbeing of the child, and implications for teaching. The subject introduces students to PDHPE in primary schools. It examines health and movement issues relevant to the primary-aged child in today’s society. It introduces relevant theories and processes underpinning the discipline and teaching of the PDHPE key learning area. The subject addresses the areas of fundamental movement skills, dance, gymnastics, games, sports, healthy approaches to physical activity, healthy eating, sexual health, safety and protective behaviours, child protection, drug education, social and emotional wellbeing, resilience, connectedness, interpersonal relationships and healthy choices. This involves a thorough analysis of the theoretical and practical movement and health studies supporting the implementation of the NSW K-6 PDHPE syllabus package, with a view to the development of informed and integrated teaching programs. Students participate in activity-based workshops that address supporting topics as well as issues relevant to their future working environments.

012218 Personal Development, Health and Physical Education 2
6cp; availability: exchange and study abroad students with faculty approval
Requisite(s): 012217 Personal Development, Health and Physical Education 1 OR 027211 Personal Development, Health and Physical Education
Undergraduate
This subject aims to further develop students’ understanding of the nature of personal development, health and physical education (PDHPE) in primary schools. It involves analysing the NSW K-6 PDHPE syllabus and effectively planning and implementing strategies for PDHPE lessons. The subject builds on the introduction to fundamental teacher knowledge of curriculum content, design and pedagogical skills in the PDHPE key learning area (KLA) with particular reference to the primary school. The subject investigates the roles and responsibilities of teachers of PDHPE and provides an opportunity for both the theory and practice of learning and teaching in PDHPE to be explored. The subject gives insight into a range of curriculum materials, strategies and processes. It investigates the advantages and disadvantages of the various teaching principles for the PDHPE KLA and provides students with the knowledge, skills and understanding to be able to plan, program and teach effectively in all facets of the PDHPE syllabus.

012219 Music, Movement and Dance
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject develops student knowledge of the K-6 NSW Board of Studies syllabus relating to the teaching of music, movement and dance in accordance with the creative arts key learning area. It also develops students’ skill and confidence in actively engaging primary students in learning experiences that are developmentally appropriate and meet the diverse needs of those students. This subject focuses on the development of basic skills and understandings in music literacy, classroom-based performance skills, and teaching strategies in the areas of vocalising, movement, playing musical instruments, listening to music, and composing music for the primary school classroom. In examining movement, elements of dance are also explored. Students are involved in the implementation of the curriculum through a range of strategies: whole-class campus-based teaching, peer teaching of musical concepts, presentations of ideas for engaging K-6 students in learning activities relating to music, movement and dance, and through opportunities to apply this learning in school-based settings in the field.

012220 Visual Arts Education
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject engages participants in art practice across a range of 2D, 3D and 4D forms and develops competencies in the fields of art criticism and art history. Participants enhance their capacities in visual literacy, art theorising and aesthetic education through managed classroom dialogue and on-site learning in an art gallery environment. In addition, an introduction to art education methods and essential professional management of learning in visual arts equips participants in this subject to develop engaging, competent visual arts programs and initiatives in their field experience in the primary school.

012221 Philosophical and Ethical Practice in Education
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The aim of this subject is to assist students to be ethical decision-makers and reflective educational practitioners, basing their actions on their own clearly considered philosophy of education as well as relevant and convincing arguments from research and policy. Such decision-making implies a reasoned and informed approach to teaching based upon an understanding and evaluation of relevant arguments, responsibilities and underlying principles. Students develop and clarify their own philosophy of education by examining various perspectives and the arguments and principles involved in current educational issues. In doing so, it is expected that students further develop critical-reflective skills needed for meaningful and successful educational practice.
012222 Child Development
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The aim of this subject is to develop student knowledge and understanding of the nature of human development and the experiences and the nature and impact of policy, post-colonialism and the foundation status of Indigenous Australians are explored. This subject focuses on knowing and understanding children; how they are alike and different, and how they change over time. This is important in helping teachers make appropriate educational decisions. The notion of childhood as a developmental phase and aspects of human development that change over time, including cognitive, biosocial and psychosocial, are considered. Current theories, reflective of the scholarly field, and their implications for practice in the primary school, are examined. Students take part in a program of professional reading, and in a range of class-based and field-based activities that enable a critical consideration of selected theories of human development and how they may inform teaching practice in the primary school.

012223 Research in Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The aims of this subject are to explore educational issues through research with a view to improving professional practice, to develop student knowledge and understanding of the research process with a specific focus on research in education (teaching and learning) and to foster a critical reflective capacity to enhance and improve praxis. The subject examines the role that educational research can play in informing classroom practice. Students read and interpret a range of research studies from differing paradigms and perspectives. The questions, assumptions, methodologies, findings and implications of these studies are identified and assessed. Discussions centre on ways that such research can be used in developing approaches that help K-6 students learn. Consideration is also given to the role of the teacher as researcher in a school context.

012224 Sociology of Education
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject enables students to apply sociological theories and concepts to the study of education and inequality in Australian society. It supports the development of an understanding of the social world through social theories that seek to explain the social, economic and political forces shaping schools and classrooms. It explores the ways in which these forces interact in the Australian context to influence educational outcomes. The subject focuses on a critical-reflective approach to educational practices and beliefs highlighting the importance of discussion and dialogue in the development of our understanding of educational issues. Some issues examined are the construction of knowledge and the process of socialisation in schools, forms of capital, poverty and disadvantage, globalisation, gender, indigenous and multicultural education.

012225 Issues in Indigenous Australian Education
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject is a mandatory Aboriginal and Torres Strait Islander perspective that provides a scaffold for education students, through field-based and investigative activity, to develop their own capacity to implement some state and federal Indigenous education policy priorities. Enhancing the educational outcome of Indigenous students and ensuring that all school students are appropriately taught Aboriginal and Torres Strait Islander studies are priorities in contemporary education across Australia. The subject provides foundation knowledge and experiences that assists students to recognise underpinning principles that apply to effective partnership with Indigenous communities and reflect upon their own practice and how it might contribute to meeting the diverse requirements of Indigenous Australian students. Issues such as integrating Aboriginal perspectives across key learning areas, historical educational experiences, and the nature and impact of policy, post-colonialism and the foundation status of Indigenous Australians are explored.

012231 Professional Experience 1: Beginning Teaching
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject introduces students to primary school teaching and to the professional teaching standards. It provides a foundation on which future professional experiences build and refines students' knowledge and practical skills. It begins the process of integrating theory and practice by forging close links between classroom-based and field-based experiences.

The campus-based component of the subject orientates students to the nature of primary schools, the roles of the primary school teacher, the relationship of teacher to learner, and the diversity of learning experiences offered by the different disciplinary areas. In the field-based component of the subject, students complete a series of distributed full-day visits to a regular primary classroom, with an observational focus. This provides students with authentic experiences on which to base critical reflection and interpretation in terms of the literature.

This subject requires eight days in a school setting.

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/9/nk5qSL1248l
- Academic video: www.youtube.com/user/utschannel#p/u/7/wo_aZQpM3w

012222 Professional Experience 2: Developing Classroom Management
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 012231 Professional Experience 1: Beginning Teaching OR 023151 Professional Experience 1: Beginning Teaching Issues in the Primary School
Undergraduate
The central aim of this subject is to introduce students to classroom management in the primary school in terms of the interconnected elements of planning for learning, managing the physical and psychological environments in which learning occurs, and managing student behaviour within those contexts.

This subject provides students with a knowledge and skill base enabling the making of informed and appropriate educational decisions as they relate to daily classroom life. The skills associated with maximising learning and learner cooperation are central to effective teaching practice. On this premise, the subject engages students in critical consideration of learning, planning and presentation strategies for learning episodes and of the skills associated with classroom management in the primary school. The subject examines current professional literature on classroom management. Students apply and critique selected management principles in the context of school-based professional experience settings.

This subject requires 10 days in a school setting.

012233 Professional Experience 3: Integrating Learning Technologies
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 012231 Professional Experience 1: Beginning Teaching OR 023151 Professional Experience 1: Beginning Teaching Issues in the Primary School AND (012232 Professional Experience 2: Developing Classroom Management OR 023152 Professional Experience 2: Developing Classroom Management)
Undergraduate
This subject develops critical thinking on the use of educational technologies in the primary school. It emphasises collaborative learning and encourages students to develop relevant knowledge, skills and attitudes to make effective use of ICT as a professional teacher.

In this subject, students deepen their understanding of how children can creatively use learning technologies to enhance their learning experiences across the K-6 curriculum. They develop their own teaching philosophy and consider innovative pedagogical approaches to using ICT in various key learning areas (KLA), with a particular focus on the science and technology KLA. Students need to demonstrate prescribed ICT competencies before starting this subject.

Subject content focuses on the theme of ‘children as designers’ as a theoretical orientation underpinning K-6 learning.

This subject requires 10 days in a school setting.
012234 Professional Experience 4: Integrating Diverse Contexts in Education
6cp; availability: not offered to exchange and study abroad students
Undergraduate
The main aim of this subject is to give students experience, pedagogical skills and background in teaching and learning in a range of diverse educational environments both inside and outside the school classroom. The subject extends students' knowledge and skills base, enabling them to make increasingly informed decisions concerning teaching practices that place the primary student at the centre of learning. Students develop skills in providing optimal learning environments and optimal approaches to learning for primary students in school, at home and in informal learning settings.

This subject requires five days in an informal learning setting.

012235 Professional Experience 5: Teaching Students with Special Educational Needs
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject examines strategies for teaching students with special educational needs within the regular classroom. It explores methods of assessment, programming, explicit teaching and classroom organisation to meet the needs of primary students who are experiencing difficulty, particularly in literacy and numeracy. Students with special educational needs can include students from the entire spectrum of skill and development levels, including gifted and talented students.

The subject examines literature in which approaches to educational programming for students with special needs have been evaluated. As such, the subject forms linkages and extends concepts visited by other curriculum subjects in this degree. Students have an opportunity to develop students' knowledge and skills base, enabling them to make increasingly informed decisions concerning teaching practices that place the primary student at the centre of learning. Students develop skills in providing optimal learning environments and optimal approaches to learning for primary students in school, at home and in informal learning settings.

This subject requires five days in an informal learning setting.

012236 Professional Experience 6: Programming and Assessing in Education
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject provides students with a critical understanding of the elements of programming and assessing as fundamental to planning and evaluation responsibilities of the primary school teacher. The subject also explores reporting as a critical means by which the teacher facilitates student learning through effective feedback provision to students, parents/caregivers and school personnel.

The subject focuses on the development of educational programs by classroom-based practitioners. It contextualises programming in the primary school through considering external factors that impact on teachers' decision-making, including local, national and international policies, initiatives and trends in curriculum development. A key aim of the subject is to equip future teachers with practical skills in designing and creating effective classroom programs that are inclusive of students with varying learning needs. Highlighted in this subject are strategies for assessment of student learning within the classroom program, evaluation of that program and approaches to reporting both school activities and individual student achievement to parents and other stakeholders.

This subject requires 10 days in a school setting.

012237 Professional Experience 7: Meeting the English Language Needs of Learners
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject develops effective teaching and learning strategies for meeting the needs of all students and accounts for cultural and linguistic diversity (e.g. Aboriginal and Torres Strait Islander students) in primary school classrooms. With specific reference to the NSW K-6 English syllabus, its embedded ESL scales and the Board of Studies Foundation Statements, understanding of the implications for teaching and learning in these contexts is fostered. The subject focuses on the development of talking, listening, reading and writing across all key learning areas, as well as significant issues relating to the acquisition of English as an additional language. Students develop understanding of the impact of culture, cultural identity and diversity in schooling; the specific culture and language learning needs of students; and appropriate teaching strategies.
012238 Professional Experience 8: Reflecting on Educational Practice
6cp; availability: not offered to exchange and study abroad students
Undergraduate
The subject aims to challenge students’ thinking and understanding of crucial aspects of the work of the teacher in the primary school, and develop skills in applying current practices, grounded in a critical awareness of recent literature in the field. To this end, Professional Experience 8 engages students in the completion of two 5-week modules: Module One - Class Management in a School Context which will critically examine how effective classroom management strategies are located within a school-wide approach to student discipline and welfare; and Module Two - NSW Quality Teaching Program: A pedagogical practices framework for professional dialogue to improve students’ academic and social outcomes. Throughout the subject, articulation between campus- and field-based elements are also highlighted.

013001 The Psychology of Adolescent Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject examines the nature of adolescents as learners and socio-cultural theories of learning and their implications for secondary teaching. It focuses on psychological variables and individual differences in adolescent students’ development and the practical implications and contributions of motivational theory for learning. Central themes include the role of meaning and structure, acquisition of skills, motivation to learn, anxiety and learning, learning concepts and acquiring skills, memory, retention and forgetting, and transfer of learning.

013002 Designing Learning for a Digital Generation
3cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject considers the impact of digital culture on teaching philosophy and how new learning technologies might be utilised in secondary education. The focus is on critique and analysis of using new learning technologies to help teenagers design, think and learn in a digital world, and how these technologies might mediate active, collaborative learning in a secondary education subject. Appropriate pedagogies for both face-to-face and online learning environments are examined.

013003 Evidence-based Practice
3cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject examines evidence-based practices of teaching and learning and their implications for contentious issues such as classroom management, class streaming and homework. Topics include ‘teacher as researcher’, reflective practitioner, action research, and action learning; the nature of evidence; how, what and when the educator knows students are learning; and what makes teaching effective. Research by UTS staff that exemplifies the role of evidence in teaching and learning is examined.

013004 Issues in Indigenous Australian Education
3cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject examines principles and practices for effective educational partnership with indigenous communities and individuals. It considers Australian social, educational and political policies and histories that affect contemporary Aboriginal education. Integrating Aboriginal perspectives across key learning areas and the foundational status of Indigenous Australians is explored. Topics include significant themes in Aboriginal education, current priorities / statistics pertaining to Aboriginal education, professional and community services / networks within Aboriginal education, cultural inclusiveness, cultural heritage protection and NSW syllabuses pertaining to Aboriginal studies and culture.

013005 The Secondary School
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject considers the knowledge, skills and attitudes teachers require to promote and manage learning in a secondary school. In this subject the theory and principles of teaching are linked to the experiences of in-school practice. The key roles teachers play in education and schooling and the institutional and legal responsibilities and rights of teachers in schools are examined. Topics include the purposes of schooling in a modern age, planning and programming, syllabus development, student-centred learning, effective teaching and classroom management skills, and evaluating teaching and learning technologies.

013006 Educating Students with Special Needs
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject examines issues in special education and how secondary teachers can meet the challenges presented by students with learning or behavioural difficulties. It considers strategies for identifying students with special needs and developing effective programming to meet their needs. Topics include alternative curricula and pathways, adaptations and accommodations, types and purposes of assessment, support services available, adapting written materials, exam provisions, proactive approaches to behaviour management, and interventions and / or supports for students with problem behaviour.

013007 Professional Learning Portfolio
6cp; availability: not offered to exchange and study abroad students
Undergraduate
In this subject students develop and present a professional learning portfolio that documents their learning in becoming an effective secondary teacher. The portfolio can demonstrate learning from a range of areas such as indigenous perspectives, social contexts, learning theory, teaching strategies, e-learning, disciplinary literacy and syllabus content. The portfolio identifies the student’s strengths and areas for improvement using a series of artefacts with reference to relevant elements of the Australian Institute for Teaching and School Leadership (AITSL) National Professional Teaching Standards for Teachers at the Graduate stage. The seven standards are grouped within the key domains of teaching; of professional knowledge, professional practice and professional engagement as indicated in the subject outcomes.

013008 The Socio-cultural Contexts of Secondary Education
3cp; this subject begins in the week before the start of semester
Undergraduate
This subject investigates the sociocultural contexts of secondary education and social theories which seek to explain the social, economic and political forces shaping schools and classrooms. It explores the ways in which these forces interact in the Australian context to influence educational outcomes. This subject focuses on a critical-reflective approach to educational practices and beliefs which enables a critique of educational philosophy and how it influences professional practice. Some of the following issues are examined: the construction of knowledge and the process of socialisation in schools; forms of capital; poverty and disadvantage; globalisation; and gender, indigenous and multicultural education.
013009 Professional Experience 1 (Commerce, Business and Economics)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013039c Commerce, Business Studies and Economics Teaching Methods 1
Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013011 Professional Experience 1 (English/History)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013041c English Teaching Methods 1 OR 013045c History Teaching Methods 1
Postgraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013012 Professional Experience 1 (English)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013041c English Teaching Methods 1
Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013013 Professional Experience 1 (Geography/Commerce, Business and Economics)
6cp
Requisite(s): 013044c Geography Teaching Methods 1 OR 013039c Commerce, Business Studies and Economics Teaching Methods 1
Postgraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013014 Professional Experience 1 (History/Geography)
6cp
Requisite(s): 013045c History Teaching Methods 1 OR 013044c Geography Teaching Methods 1
Postgraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013016 Professional Experience 1 (Languages)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013046c Language Teaching Methods 1
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013017 Professional Experience 1 (Mathematics/Computing Studies)
6cp
Requisite(s): 013047c Mathematics Teaching Methods 1 OR 013040c Computing Studies Teaching Methods 1
Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013018 Professional Experience 1 (Mathematics/Science)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013047c Mathematics Teaching Methods 1 OR 013044c Science Teaching Methods 1
Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.
communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

**013019 Professional Experience 1 (Personal Development, Health and Physical Education)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013044c Personal Development, Health and Physical Education Teaching Methods 1
Undergraduate

This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions.

Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

**013020 Professional Experience 1 (Science/Computing Studies)**

6cp
Requisite(s): 013049c Science Teaching Methods 1 OR 013044c Computing Studies Teaching Methods 1
Undergraduate

This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning, and improvement in professional knowledge and practice.

**013021 Professional Experience 1 (Science)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013044c Science Teaching Methods 1
Undergraduate

This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions.

Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

**013022 Professional Experience 1 (Visual Arts)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013050c Visual Arts Teaching Methods 1
Undergraduate

This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions.

Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

**013023 Professional Experience 1 (Mathematics)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013047c Mathematics Teaching Methods 1
Undergraduate

This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school (the subject requires 23 days in a school setting). Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions.

Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In the subject, students demonstrate effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

**013024 Professional Experience 2 (Commerce, Business and Economics)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013026 Professional Experience 2 (English/History)
Undergraduate

In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

**013026 Professional Experience 2 (English/History)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013011 Professional Experience 1 (English/History)
Undergraduate

In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

**013027 Professional Experience 2 (English)**

6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013012 Professional Experience 1 (English)
Undergraduate

In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.
013028 Professional Experience 2 (Geography/Commerce, Business and Economics)
6cp
Requisite(s): 013013 Professional Experience 1 (Geography/Commerce, Business and Economics)
Undergraduate
In this subject the student gains professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. The student observes lessons, team teaches, assists with classes, and teaches small groups of pupils and classes.
In this subject the student analyses and modifies their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment, and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013034 Professional Experience 2 (Mathematics)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013023 Professional Experience 1 (Mathematics)
Undergraduate
In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013029 Professional Experience 2 (History/Geography)
6cp
Requisite(s): 013014 Professional Experience 1 History/Geography
Undergraduate
In this subject the student gains professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. The student observes lessons, team teaches, assists with classes, and teaches small groups of pupils and classes.
In this subject the student analyses and modifies their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching. This includes effective planning, assessment, and reporting and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013035 Professional Experience 2 (Personal Development Health and Physical Education)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013019 Professional Experience 1 (Personal Development, Health and Physical Education)
Undergraduate
In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. The student observes lessons, team teaches, assists with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013031 Professional Experience 2 (Languages)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013016 Professional Experience 1 Languages
Undergraduate
In this subject the student gains professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as a teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes, and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching. This includes effective planning, assessment, and reporting and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013032 Professional Experience 2 (Mathematics/Computing Studies)
6cp
Requisite(s): 013017 Professional Experience 1 Mathematics/Computing Studies
Undergraduate
In this subject the student gains professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. The student observes lessons, team teaches, assists with classes, and teaches small groups of pupils and classes.
In this subject the student analyses and modifies their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching. This includes effective planning, assessment, and reporting and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013033 Professional Experience 2 (Mathematics/Science)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013018 Professional Experience 1 Mathematics/Science
Undergraduate
In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teaches, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.
013038 Professional Experience 2 (Visual Arts)
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 013022 Professional Experience 1 (Visual Arts)
Undergraduate
In this subject, students gain professional experience in secondary schools (the subject requires 23 days in a school setting). It provides an opportunity to engage fully in a school experience as teacher supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teach, assist with classes and teach small groups of pupils and classes. Students analyse and modify their experiences in order to improve their practice. They demonstrate knowledge of their subject/content and strategies for effective teaching, including effective planning, assessment and reporting, and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013039 Commerce, Business Studies and Economics Teaching Methods 1
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject considers the foundation skills, knowledge, understanding, values and attitudes required of an effective beginning teacher of commerce, business studies and economics in secondary school. (This subject is closely associated with practicum.) An emphasis is placed on professional aptitude and commitment, and current and innovative developments in teaching and learning, particularly with regard to the NSW Board of Studies syllabus documents presently in use, as well as reflection on teaching practice. It explores teaching strategies and approaches as well as the content, rationale and structure for the study of commerce in stages 4, 5 (years 7, 8, 9 and 10) and business studies and economics in stage 6 (years 11 and 12).

013040 Computing Studies Teaching Methods 1
6cp
Undergraduate
This subject combines theory with practice to explore the skills and understandings required to teach information and software technology/computing studies in secondary school. (This subject is closely associated with practicum.) It examines teaching approaches and strategies for working with adolescents in information and software technology, with a focus on developing knowledge and understanding – and promoting problem solving and critical thinking – in design and development. The topics include the effects of past, current and emerging information and software technologies on the individual and society; responsibilities and ethics in the use of information and software technology; effective communication skills and collaborative work practices; and selecting, and employing a range of appropriate assessment strategies.

013041 English Teaching Methods 1
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject explores how English teaching and curriculum can be organised and managed for effective learning. It combines theory with practice in considering the skills and understanding required for beginning English teaching in a secondary school. The subject includes the study of secondary syllabuses, lesson planning and assessment, and is closely associated with 015250 Professional Experience 1. Topics also include programming; the needs of diverse learners; use of computers in English education in years 7-12; and designing, organising and evaluating methods and materials for English teaching.

013042 Commerce, Business Studies and Economics Teaching Methods 3
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject considers learning and teaching approaches and strategies to promote the study of business studies and economics in stage 6. It examines understanding and skills required to develop the craft of teaching business studies and economics. Professional skill is blended with suitable academic insights as the subject examines a range of approaches and strategies to use in the classroom which reflect research findings in education. Students develop a philosophy of teaching business studies and economics taking account of current syllabuses and policies, and demonstrate understanding of the professional insights and demands of the practising business studies and economics teacher.

013044 Geography Teaching Methods 1
6cp
Undergraduate
This subject develops students' understanding and practice of learning and teaching approaches and strategies to promote the study of geography in stages 4, 5 and 6 (years 7 and 8, 9 and 10, and 11 and 12, respectively). Students are taught the skills, knowledge, understanding, values and attitudes required of an effective beginning teacher of geography in secondary school. This subject is closely associated with Professional Experience (Practicum). An emphasis is placed on professional aptitude and commitment, and current developments in teaching and learning, particularly with regard to the NSW Board of Studies Syllabus' documents presently in use, as well as reflection on teaching practice.

013045 History Teaching Methods 1
6cp; availability: not offered to exchange and study abroad students
This subject develops students' understanding of the nature of history and history teaching. It explores a variety of teaching approaches and strategies suitable for the stage 4, 5 history secondary curriculum as detailed in syllabus documents. The subject aims to provide students with the skills, knowledge, understanding, values and attitudes required of an effective beginning teacher of history in the secondary school. This subject is closely associated with practicum experience. An emphasis is placed on innovative teaching methods, professional commitment, current developments in teaching and learning, and reflection on teaching practice.

013046 Language Teaching Methods 1
6cp
Undergraduate
This subject is designed to explore how languages teaching and curriculum can be organised and managed for effective learning. The subject combines theory with practice to provide a student with the skills and understanding required to begin to teach languages in a secondary school. The subject includes study of secondary syllabuses, lesson planning and assessment. The use of technology in the teaching and learning of languages is integrated into each aspect of the subject. The subject is closely associated with Professional Experience 1.

013047 Mathematics Teaching Methods 1
6cp
Undergraduate
This subject explores how mathematics teaching and curriculum can be organised and managed for effective learning. Closely associated with Professional Experience, the subject combines theory with practice to provide students with the skills and understanding required for beginning mathematics teaching in a secondary school. It examines child development and how mathematics is learned, as well as recognising behavioural and diagnostic indicators of pupil comprehension. The subject includes study of secondary syllabuses; lesson planning and assessment; explaining mathematical ideas accurately and with clarity; and using suitable language examples, models, etc.

013048 Personal Development, Health and Physical Education Teaching Methods 1
6cp
Undergraduate
This subject aims to contribute to the preparation of PDHPE teachers who are reflective of their practice, able to cope with the changing nature of PDHPE teaching, have a commitment to interpersonal skills, are able to put current developments in learning and teaching into practice, and have a commitment to lifelong learning.

013049 Science Teaching Methods 1
6cp
Undergraduate
This subject explores how science teaching and curriculum can be organised and managed for effective learning. The subject combines theory with practice to provide students with the skills and understanding required to begin to teach science in a secondary school and is closely associated with 015250 Professional Experience 1. The subject includes study of secondary syllabuses, lesson planning, assessment, interactive approaches to learning and teaching science, and different forms and functions of practical work and its role in learning and teaching.
This subject combines theory with practice in considering the skills and understanding required for beginning visual arts teaching in a secondary school. It examines the notion of practice-based learning, through exposure to artists, critical and historical practice, and models of enacted creative practice. This subject explores the importance of creating and making as central to the study of the arts and how visual arts education can be organised and managed. (This subject is closely associated with practicum and associated teaching-learning activities.)

This subject introduces students to the fields of organisational and workplace learning, and human resource development. Students are expected to critically explore the theoretical approaches to organisational and workplace learning, and reflect on their own experiences. This subject is closely associated with practicum and associated teaching-learning activities.

The focus of this subject is on preparing proficient beginning teachers in commerce, business studies and economics. Students create programs of work and design educational experiences in computing studies for upper secondary school students, and consider how to design, organise and evaluate methods and materials for teaching. A range of programs and projects that facilitate student learning are explored. (Students demonstrate ability in applying their educational studies to the teaching of selected computing subjects.)

This subject is designed to provide participants with the foundation of effective teaching of languages within the perspective of the K-12 continuum, assist them to develop a flexible and informed approach whereby strategies can be selected appropriate to the learner’s linguistic and communicative needs in the process of learning, and maintain and develop participants’ own language skills. The focus is on the teaching of the four macro skills of listening, speaking, reading and writing. The acquisition of these skills involves the ability to use various learning and communication strategies, the ability to convey meaning clearly and coherently and the ability to understand both oral and written messages in the target language. All these factors are considered along with the means by which these skills may be best acquired.

The focus of this subject is on preparing proficient beginning teachers in commerce, business studies and economics, and setting a foundation for continuing professional development. Students are expected to critically explore the theoretical approaches to organisational and workplace learning. They have opportunities to examine a range of strategies developed by organisations to meet organisational and individual learning needs and the challenges posed by technological, social, economic changes to work and organisations. The subject also focuses on the roles of educators/learning and development practitioners in facilitating this learning.

This subject develops students’ understanding and practice of teaching and learning geography in stages 4, 5 and 6 (years 7 and 8, 9 and 10, and 11 and 12 respectively). The subject aims to provide students with the skills, knowledge, understanding, values and attitudes required of an effective beginning teacher of geography in secondary school. This subject is closely associated with Professional Experience (Practicum). An emphasis is placed on professional aptitude and commitment, and current developments in teaching and learning, particularly with regard to the NSW Board of Studies Syllabus’ documents presently in use, as well as reflection on teaching practice.

This subject is designed to provide participants with the foundation of effective teaching of mathematics within the perspective of the K-12 continuum, assist them to develop a flexible and informed approach whereby strategies can be selected appropriate to the learner’s mathematical needs in the process of learning, and maintain and develop participants’ own mathematics skills. The focus is on the teaching of mathematical thinking and how to overcome them, the primacy of problem solving in the teaching and learning of mathematics, and teaching for mixed achieving classes. This subject considers the nature of history and history teaching, and the skills, knowledge, understanding, values and attitudes required of an effective beginning teacher of history in secondary school. Students examine a variety of teaching approaches and strategies suitable for stage 4, 5 and 6 history secondary curriculum as detailed in syllabus documents. (This subject is closely associated with practicum.) They also examine innovative teaching methods, professional commitment, current developments in teaching and learning, and reflection on teaching practice.
013061 Science Teaching Methods 2  
6cp  
Requisite(s): 013049 Science Teaching Methods 1  
Undergraduate  
This subject considers the skills and understandings required to be an effective secondary science teacher and to create an engaging program for learning in science. This subject is closely associated with Professional Experience 2. An emphasis is placed on professional commitment, current developments in teaching and learning, and reflection on teaching practice. Topics include safety, teaching to mixed achievement classes, organising and evaluating methods and materials for learning, theoretical teaching frameworks, enacting selected policies and perspectives, including ATSI perspectives.

013062 Visual Arts Teaching Methods 2  
6cp  
Requisite(s): 013050 Visual Arts Teaching Methods 1  
Undergraduate  
This subject allows students to study curriculum development in Australia, models for teaching and visual arts, within a range of educational contexts, such as schools and community galleries. Students are expected to research current national and international issues in visual arts education to formulate significant programs and models for teaching visual arts. Students focus on syllabus content and critically analyse this in relation to international and national trends, and in response to personally derived models of visual arts education practices.

013063 English Teaching Methods 3  
6cp  
Undergraduate  
This subject is designed to develop knowledge and understanding of teaching and learning approaches to the study of English in stages 4, 5 and 6 (years 7 and 8, 9 and 10, and 11 and 12, respectively – there is a particular focus on stage 6). The subject focuses on the development of proficient, professional and reflective teachers who can apply their educational studies to design, organise and evaluate methods and materials for English teaching, and who commit to awareness of current educational theory and practice.

013064 Language Teaching Methods 3  
6cp  
Undergraduate  
This subject aims to develop the craft of teaching languages in the secondary school while blending professional skills with suitable academic insights. The students develop a range of approaches and strategies to use in the classroom, which reflect research findings in education. They develop a philosophy of teaching languages taking account of current syllabuses and policies, and demonstrate understanding of the professional insights and demands of the practising language teacher.

013065 Mathematics Teaching Methods 3  
6cp  
Undergraduate  
This subject aims to develop the craft of teaching mathematics while blending professional skill with suitable academic insights. Students develop a range of approaches and strategies to use in the classroom that reflect research findings in education. They develop a philosophy of teaching mathematics taking account of current syllabuses and policies, and demonstrate understanding of the professional insights and demands of the practising mathematics teacher.

013066 Personal Development, Health and Physical Education Teaching Methods 3  
6cp  
Undergraduate  
This subject examines the NSW Board of Studies years 7 to 10 PDHPE syllabuses as they relate to teaching and learning issues, with particular emphasis on learning to teach from the new syllabus and teaching programs. It combines a practical and theoretical focus to develop skills and understanding of the structure and content of the syllabuses, and provide students with opportunities to explore a wide range of programming, planning, teaching and learning strategies, and computer-based technologies. It also lays the foundation for teacher thinking and theorising.

013067 Science Teaching Methods 3  
6cp  
Undergraduate  
This subject aims to develop the craft of teaching science while blending professional skill with suitable academic insights. Students develop a range of approaches and strategies to use in the classroom that reflect research findings in education. They develop a philosophy of teaching science, taking account of current syllabuses and policies, and demonstrate understanding of the professional insights and demands of the practising science teacher.

013068 Visual Arts Teaching Methods 3  
6cp  
Undergraduate  
This subject explores the skills and understandings required for effective visual arts teaching, and develops teaching approaches and strategies to promote learning. This subject is closely associated with practicum and focuses on professional commitment, current developments in teaching and learning, and reflection on teaching practice. Topics include Indigenous Australian heritage protection issues and their implications for teaching, sociocultural contexts for art education, health and safety requirements, approaches to evaluation and assessment, inclusive practice(s) in visual arts curriculum development, and conceptual frameworks in practice.

013069 English Teaching Methods 4  
6cp  
Requisite(s): 013041 English Teaching Methods 1  
Undergraduate  
This subject focuses on preparing proficient beginning teachers in English and setting a foundation for continuing professional development. It explores skills needed to design, organise, and evaluate methods and materials for English teaching. The use of a theoretical framework, grounded in education research, is considered as a basis for future teaching. In this subject students demonstrate a developing depth of knowledge within a selected area of English education relevant to selected NSW stage 4, 5 and 6 English syllabuses and the Australian Curriculum: English. Topics in this subject include methods and types of assessment, teaching writing, drama, Shakespeare and poetry, and strategies to assist student learning in English with an emphasis on student-centred learning.

013070 Language Teaching Methods 4  
6cp  
Requisite(s): 013046 Language Teaching Methods 1  
Undergraduate  
This subject aims to prepare proficient beginning teachers in languages. It is intended as a foundation for continuing professional development. On completion of this subject, students are able to apply their educational studies to the teaching of languages; to design, organise and evaluate methods and materials for languages teaching; and to use their theoretical framework as a basis for their future teaching.

013071 Mathematics Teaching Methods 4  
6cp  
Requisite(s): 013047 Mathematics Teaching Methods 1  
Undergraduate  
The focus of this subject is preparing proficient beginning teachers in mathematics and setting a foundation for continuing professional development. It explores skills needed to design, organise, and evaluate methods and materials for mathematics teaching, and examines stage 6 extension 1 and extension 2 mathematics syllabuses. The use of a theoretical framework, grounded in education research, is considered as a basis for future teaching. In this subject students demonstrate a developing depth of knowledge within a selected areas of mathematics education relevant to selected NSW stage 4, 5 and 6 mathematics syllabuses.
013072 Personal Development, Health and Physical Education Teaching Methods 4
6cp
Requisite(s): 013048 Personal Development, Health and Physical Education Teaching Methods 1
Undergraduate
This subject combines a practical and theoretical focus on movement skills and socio-cultural concepts and policies. It concentrates on gymnastics, games and different learner groups, while providing students with an understanding of the K-10 PDHPE syllabuses. It develops students' professional understanding and skills and encourages them to develop as reflective practitioners.

013073 Science Teaching Methods 4
6cp
Requisite(s): 013049 Science Teaching Methods 1
Undergraduate
This subject focuses on preparing proficient beginning teachers in science and setting a foundation for continuing professional development. On completion of this subject students are able to apply their educational studies to the teaching of science; to design, organise and evaluate methods and materials for science teaching; and to use their theoretical framework as a basis for their future teaching. Students also demonstrate the development of a depth of knowledge within selected areas of science education relevant to selected NSW Stage 4, 5 and 6 science syllabuses.

013074 Visual Arts Teaching Methods 4
6cp
Requisite(s): 013050 Visual Arts Teaching Methods 1
Undergraduate
This subject studies models for teaching the visual arts within a range of educational contexts, including secondary schools and community galleries. It examines research of current national and international issues in arts education and the use of that information to formulate significant models for teaching the visual arts. Students demonstrate the use of the latest technologies to access peak bodies in visual arts learning and teaching. This subject considers syllabus methodologies and critically analyse these in relation to international and national trends and in response to personally derived models of art education practices.

013075 Music Therapy 1
6cp
Postgraduate
This subject provides an introduction to the diversity within the field of music therapy, its context, history, methods, research base and underlying premises (including physiological, psychological, social and spiritual roles of music). Music skills are consolidated and extended; focusing on improvisation, aural skills, vocal care, and composition/repertoire for children. Students undertake clinical practice supervised by registered music therapists and address the issues of professional ethics and self care.

013076 Music Therapy 2
6cp
Postgraduate
This subject examines in more depth a selection of theoretical models, key expressive and receptive techniques, and research methods used in music therapy. Music skills are developed, focusing on improvisation to movement, voice work, accompaniment, and repertoire for adolescents. Clinical practice is continued in the field, developing students' skills in the documentation of music therapy sessions.

013077 Music Therapy 3
6cp
Postgraduate
This subject addresses the need for direction and purpose in casework by studying the procedures of assessment, program design, evaluation and closure. The importance of choosing appropriate research design and analysis methods is highlighted. Music skill development focuses on individual and group improvisation, sight singing, the range of musical styles and repertoire suitable for adults. Clinical practice continues in a range of settings.

013078 Music Therapy 4
6cp
Postgraduate
This subject is designed to support graduating students to enter the profession of music therapy. Topics covered in the subject include supervision, support groups, private practice, professional ethics, communication, and working in multidisciplinary teams. Music skills are further developed in the areas of instrumental proficiency, improvisational freedom, transposition, playing from memory and repertoire for older adults. A project, which contributes to the field, is undertaken, and clinical practice is tailored toward students' intended areas of specialisation.

013080 Integrated Arts Therapy 2
6cp
Postgraduate
This subject focuses on the articulation between music therapy and other creative arts therapies through immersion in the foundations of intermodal expressive arts therapy, which include play, poiesis and imagination. The key differences between arts modalities are examined and students are supported to develop ways in which other arts can enrich their styles as music therapists. Public presentation skills are refined, and arts-based options in research are reviewed. Students also undertake and report the outcomes of self-care projects.

013081 Aboriginal Studies Project
6cp; availability: not offered to exchange and study abroad students
Undergraduate
In this subject students complete a major research project on a subject relating to Aboriginal or Torres Strait Islander society. Under the supervision of a member of academic staff, either in groups or individually, students negotiate their project through a learning contract. They demonstrate the ability to identify a subject for research, access a range of appropriate sources of information, describe and analyse the issues, and present their findings in the production of a major piece of research.

013082 Aboriginal Social and Political History
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject examines and analyses the impact of colonialism on Indigenous Australian people, with particular reference to the Aboriginal inhabitants of this region. The emergence of Aboriginal social and political movements is presented as the basis for repossession of traditional heritages in land and culture. Topics include ethnocentric versions of history; consequences of the practices and policies particularly in relation to the Aborigines Protection Boards, Indigenous Australian social and political movements, and misconceptions about Aboriginal history; and their impact on public opinion to the detriment of Indigenous peoples.

013087 Discourse Analysis
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject examines the theory and practice of discourse analysis and how discourse analysis can inform research and teaching. It introduces a number of approaches to discourse analysis, including conversation analysis, a systemic functional perspective on discourse, and critical discourse analysis, and illustrate ways in which discourse analysis can be applied to a wide range of research questions and contexts. Specific attention is given to discourse as spoken interaction (especially casual conversation) including both language and gesture, and discourse in written texts via various media, and including image in texts.

013088 Educational Management
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject introduces students to key approaches and understandings of management and organisations as they particularly relate to educational organisations and the learning/training functions of other organisations (e.g. private enterprise, community organisations, government organisations). Students explore ways of understanding organisations as a basis for developing their abilities in organisational ...
analysis, and to critically reflect on their own workplace and other organisations and industries. The subject focuses on a range of management issues, such as workplace and organisational learning, staff development, human resources management and leading and coaching. It provides students with opportunities to gain skills, knowledge and expertise in dealing with a specific operational or logistical issue in the company, the TAFE college, the private provider, the community-based organisation, and the work of the consultant.

013090 e-Learning Design
6cp
Requisite(s): 013091 e-Learning Experiences 1 OR 013092 e-Learning Experiences 2
Postgraduate
In this subject students explore the processes of design, development and operationalisation of e-learning systems, locating such study in actual cases. Students examine ways these new cultural forms might influence and be influenced by the existing structures and functions of organisations: relationships that are fundamental to knowledge management.

They analyse possible cultural barriers to the implementation of e-learning, including deep values, principles and prejudices (particularly in relation to equity and social justice for disempowered groups, locally and globally) and how such barriers might be circumvented. Students elicit those values and principles underpinning e-learning systems that are in tune with existing organisational and cultural structures and consider how such values and principles might be developed in organisations and cultures confronting potentially destabilising development. The subject culminates in a draft proposal for an e-learning design to address educational and/or training issues in the student's own discipline or field of professional practice. By exploring the potential of technology-mediated solutions, students further increase their level of technological fluency.

013091 e-Learning Experiences 1
6cp
Postgraduate
This subject is the first of a sequence of related subjects aimed at helping students to develop their understanding of e-learning systems, both as an e-learner and as an e-learning theorist and designer. Without a good grasp of the experience of being a learner and without a clear understanding of the models and theories implicit in e-learning systems, it is difficult to design and operate these systems sensitively or imaginatively.

This subject immerses students, as learners in a learning community, in a small set of carefully chosen e-learning contexts so that their sensitivities to the potency of these media for learning are sharpened. As well, their understanding of problem-oriented approaches to learning (a key set of strategies within this suite of e-learning subjects and courses) is developed. Particular emphasis is placed on understanding the nature and educational significance of e-learning communities and networks. Students attain a basic level of technological fluency by using e-learning approaches to enhance their understanding of aspects of this increasingly important field; and they develop their critical appreciation of the value of e-learning approaches, from the perspectives of individual learners and active members of a learning community. They use their experience of e-learning, together with their reading and discussion in this subject, to begin to distil educational models and theories for testing and use in their studies and professional practice.

013092 e-Learning Experiences 2
6cp
Postgraduate
This subject is designed to enhance and deepen students' understanding of e-learning, both as a practitioner and as a theorist. It aims to develop competence about taking a leadership role in the design and use of e-learning systems, through combining experience of collaborative digital tools with an understanding of relevant models and theories.

With an understanding of a range of learning theories, students engage with e-learning systems and identify and critique their design and practical implementation. E-learning is considered in a variety of contexts and cultures. During the subject, students are expected to focus on a particular problem or challenge that is of interest to them and to use their understanding of educational theory and digital practice to offer innovative e-learning solutions.

013093 e-Learning Technologies
6cp
Requisite(s): 013091 e-Learning Experiences 1 OR 013092 e-Learning Experiences 2
Postgraduate
In this subject students engage with selected problem-oriented scenarios, chosen to fit with their needs and experiences, in which actual learning problems are presented, and which have led to the development of particular e-learning contexts. By considering steps, both actual and possible, towards the solution of these learning problems, students develop a basic understanding of a range of e-learning technologies, equipping them to take an informed part in interdisciplinary e-learning design teams. As a central part of their experience in this subject, students are introduced to and develop a basic familiarity with a selected range of technical solutions that are possible for a variety of educational problems. Students' technological fluency is further developed through their consideration of the technological principles implicit in e-learning systems.

013095 Global Englishes
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject explores the implications of the global spread of English, a hotly debated current issue in TESOL (teaching English for speakers of other languages) and applied linguistics. It examines the general causes and effects of the global spread of English, including its current relationship with global media and the internet. This includes linguistic imperialism, linguistic genocide, and the maintenance of global inequality. English in context and the implications of English having become both a global and a local language in many parts of the world is presented. The contemporary roles, status, forms and implications of different varieties of new Englishes, including Indian, Singaporean and Australian Aboriginal English, as well as pidgins and creoles are considered.

013096 Grammar and the Construction of Meaning
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject explores the functional organisation of grammar and how it creates meaning both through the classification of our physical, social and psychological worlds, as well as through the dynamics of negotiating and maintaining social and interpersonal relationships. This subject enables students to develop practical skills in the analysis of the grammar of real-life texts and to develop skills in evaluating the appropriateness and effectiveness of language use. Students develop an understanding of the nature and structure of grammar and text, and develop a terminology to talk about the competencies and needs of language learners in the effective teaching of language, literacy and numeracy.

013097 Human Resource Development in Organisations
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject critically evaluates the major theories and debates that explain the behaviour of people in work settings and the nature of the organisational context where that behaviour occurs. It focuses on individual, group and organisational factors influencing the effectiveness of organisations. The subject analyses, in detail, underlying situational and environmental factors and issues affecting the behaviour of people at work and the impact of that behaviour upon HRD plans and activities. Themes include employee attitudes and behaviour in relation to motivation, organisational performance, motivation, groups and teamwork, decision-making, and the management and development of culture and meaning in organisations. Case studies and exercises are used to illustrate organisational and behavioural issues within the HRD context.
This subject enables students to extend their skills and knowledge in an area of education of interest to them. Students design and carry out, in consultation with a member of academic staff, an individual course of study such as a field-based project or an in-depth review of the literature of a particular subject. Enrolment in the subject is contingent upon the student finding a member of academic staff willing to supervise the project and the completion of a form available from student services. The form requires an outline of the work to be carried out and dates for various stages of the project and must be signed by the student, academic supervisor and subject coordinator before enrolment.

This subject focuses on the extension of skills and knowledge in an aspect of education of interest to the student. In ISP 1 and 2 students design and carry out, in consultation with a member of academic staff, an individual course of study such as a field-based project or an in-depth review of the literature of a particular subject. Enrolment in the subject is contingent upon the student finding a member of academic staff willing to supervise the project. An outline of the work with deadlines for various stages of the project must be signed by the student, academic supervisor and subject coordinator before enrolment.

This subject provides a broad and applied introduction to the study of language for students who are working towards an initial teacher qualification. It focuses on understanding how English works, which is essential for those embarking on careers as language or literacy teachers. It introduces students to both traditional and functional grammar, and explores the structure and organisation of language. Students investigate the relationship between meaning and grammar, and explore how language varies in a range of social contexts.

This subject focuses on developing a critical understanding of a range of issues concerning Aboriginal education and examines the social contexts within which Australian education and Aboriginal and Torres Strait Islander education operate. Rather than attempting to move to resolution or conclusions about issues in Aboriginal education, it seeks to develop skills and knowledge for approaching the negotiation of issues in creative and strategic ways. It explores how to recognise multiple perspectives on specific issues and the use of metaphor as an approach to generating discourse.

This subject is designed to help those with a language/literacy background to develop an understanding of the significance of a critical perspective on issues of language and power, and for those already with a strong view of the political nature of social life to develop an understanding of the significance of language and literacy. Central to the subject is an understanding of the interrelationships between power and language. No previous knowledge in the area is assumed, although the subject attempts to build on knowledge of different areas that participants bring to the subject. The focus of the subject is on broad political and theoretical issues relevant to the concepts of language, power, literacy, and pedagogy. A further aim is to introduce perspectives and techniques for developing critical literacy and discourse analysis skills, and for taking up the pedagogical challenge posed by issues of language and power.

This subject provides a framework for studying first and second language development, with particular emphasis on social and functional perspectives on language learning. This subject involves developing critical perspectives on language and literacy, and examines issues related to classroom pedagogical practice. The subject offers a survey of the principal topics currently addressed in the study of second language acquisition, and of the major research methods and paradigms used in such studies.

This subject aims to develop students' professional learning and mentoring skills. It provides students with opportunities to develop an understanding of the research literature relating to mentoring as well as exploring the issues involved in developing effective workplace mentoring practices. An important part of the subject is interaction with colleagues through UTSONline. Access to a computer and the internet is required for this subject.

This subject explores theoretical and practical perspectives on the teaching of pronunciation within a functional approach to language. Phonemic and prosodic aspects of language are considered, and the role of prosody in contributing to the construction of meaning is explored. Students develop strategies for the teaching of pronunciation to learners of a second language, and also consider phonological aspects of the first language.

This subject introduces the design of research across the full spectrum of education - school education, higher education, vocational education and training, and adult and vocational learning in all its forms. It builds on the work of 013348 Research Perspectives. These two subjects provide the main research coursework for UTS: Education master's students. Participants demonstrate their capacity for research and the ability to undertake an independent piece of scholarly research with critical awareness.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
013117 Theory and Practice of Literacy
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject aims to provide students with advanced knowledge and skills in teaching literacy in a variety of contexts, and with theoretical frameworks for exploring, evaluating, and critiquing a range of pedagogic practices and approaches to literacy teaching and learning. These theoretical frameworks provide reference points for exploring the nature of literate language, the role of literacy in learning, and pathways and processes in literacy development in schools and adult contexts. The subject aims to enable students to engage in an informed way in current debates and discussions around literacy in the public domain. In practical terms, students engage with the enactment of different pedagogies in teaching and learning materials and in teacher–learner interactions.

013118 Teaching and Learning Literacy
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject explores different understandings about the nature of literacy and its roles(s) in our society. It provides a rationale for viewing literacy as a sociocultural practice and examines the implications of this approach for developing literacy programs for adults in a variety of contexts. This subject examines methodologies for teaching and learning literacy that draw on theories of literacy, adult learning and social theories of language.

013120 The Psychology of Adult Development
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
In this subject students examine how the 'development of adults' is understood within different schools of thought in psychology and within critiques of these schools of thought. The subject focuses on contemporary adult development practices across different educational and learning sites as mini case studies through which to study psychological assumptions about adult development. These mini case studies include examples such as emotional intelligence, personal development courses, diversity training, self-help books, and coaching; and examples from student experiences. Also discussed are how different theoretical schools of thought within psychology in relation to adult development have their own distinct views on how adults are imagined to develop; what the mechanisms of developing adults are, and how development is understood. The subject also explores how these schools of thought have been critiqued from within psychology; critical psychology; Indigenous and cultural psychology and feminist psychology; and within sociology and cultural studies. If and how these different schools of thought manifest themselves in practice is examined. The subject goes on to ask what the effects and politics of these are in relation to workplace learning, adult education and notions of personal and social change. It is aimed at students from any of the fields of practice represented in the Master's program. The subject provides students with an opportunity to develop their knowledge of different schools of psychology in relation to adult development, to understand how these schools underpin contemporary adult development practices and to reflect critically on their own development practices as a learner and as an adult educator.

013121 Theory and Practice of Teaching English to Speakers of other Languages
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject explores the theories and practices of English language teaching in contemporary society and critically examines the theoretical assumptions that underpin various approaches to TESOL (teaching English for speakers of other languages). With a focus on the teaching and learning of spoken language, it examines approaches to syllabus and program design, including the discourse of the classroom. The content in this subject includes sociocultural approaches to second language learning and teaching, intercultural issues and identity, collaborative learning in the classroom, planning language programs, and assessing spoken language.

013122 Understanding Adult Education and Training
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject surveys a range of theories and research in different aspects of adult education practice. It relates the theories and research to the core activities of teaching, group work, learning facilitation, program design and evaluation, policy formation and implementation. In this subject students demonstrate an understanding of their position in the field of adult education that takes into account personal values, organisational values, ethics and intellectual traditions. The subject also examines debates related to significant contemporary issues.

013123 Work and Learning
6cp
Postgraduate
The nature of work is at the core of many debates about contemporary and future society. A critical aspect of these debates is the role of adult education and learning. This subject is concerned with the changing relationship between work, the economy and adult learning and focuses on contemporary debates and literature. The subject connects with others offered in the master's programs. There is an overlap with those subjects concerned with issues of skill, workplace and organisational learning, technology and communications. This subject however attempts to place these particular issues within a larger framework that considers changes in the economy and society and adult learning. Its primary concern is not with the specific application of workplace learning but rather in situating those particular applications within a wider political and economic context.

In the subject students look at why there is so much interest in the connection between work and learning; the various assumptions about education, economy and employment are examined; and the practical outcomes of new policy prescriptions are critically explored. Short stories of work and case studies of work and learning are examined.

The subject is designed for those interested in exploring the broader connections of work, economics, labour and management initiatives, policy development and workplace learning. It offers students the opportunity to further their study and reading in areas such as labour process, ethnography of work, economic policy; workplace change; international restructuring including globalisation and the movements of people and jobs across national borders; and examine how education and learning is connected to these areas.

The subject should enable students to understand and better locate policy proposals around workplace change, skill formation, work/ life balance, employment and unemployment, power relations at work and economic development, and their connections to learning and in particular lifelong learning.

013124 Work and People
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject introduces the world of work and considers an overview of the global changes in modern employment. It examines the skills required to analyse the structure and organisation of work in mature industrial societies. The subject reviews the various shifts in the nature and composition of the labour force. Case studies are used to explore the nature of work and its impact on individuals and groups. The trends and developments in workplace contexts are examined through applied projects.

013125 Adult Education: History, Policy and Context
6cp
Postgraduate
This subject examines the history of adult education and the claims that adult educators have made about the special role and purpose they play. Among these are that the first adult educators were popular educators and that adult education's defining purpose is to support democracy and social change; others concentrate on preparing adult learners for work, to assist adults to achieve self-actualisation and see it as developing human and social capital; while others say adult education provides a second chance at education, especially in the
fields of literacy and numeracy, and in underdeveloped economies. How might we understand the claims made for adult education in the early 21st century against earlier claims? Is it still a force for social or radical change or has it been conscripted to deliver a flexible and adaptable workforce? Can we even say there is a role for adult education or indeed that the term continues to have a particular meaning? By exploring these issues and questions, this subject also looks at contemporary policy and thinking.

013127 Communication Management
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject focuses on developing the ability to apply conceptual frameworks in adult communication management to professional practice. Particular attention is given to communication skills for effective management. Topics to be considered are people in systems and the shadow side of communication management, conflict and communication management, nonverbal communication, persuasion, listening, assertiveness, negotiation, writing, helping and feedback at work, and inter-cultural communication competence.

013128 Learning and Change in Organisations
6cp
Postgraduate
This subject enables teachers, trainers and managers to explain and critique a range of contemporary theoretical perspectives on organisational development in order to enhance educators' analysis of specific organisations, change management methods, communication strategies and initiatives for learning in organisational settings. The subject enhances educators' capability to manage the relentless demands for facilitating learning and managing change, which is now faced by all educational institutions and groups across Australia.

013129 Effective Cognitive Learning Strategies
6cp
Postgraduate
This subject introduces a range of cognitive learning strategies needed for effective lifelong learning. It examines the links between skill, will and self-regulation. This subject presents the knowledge and skills required to identify, use and teach appropriate cognitive learning strategies for effective adult learning. Topics to be considered include the importance of the Information Processing Model as a framework in cognitive learning strategy teaching, basic learning strategies involving repetition, elaboration and organisation, and the role of mnemonic devices in effective learning and mnemonic generation.

013130 Education for Social Change 1
6cp
Postgraduate
This subject explores theories of social change and the educational dimension of various fields of practice that overtly seek to bring about social change. They include commercial advertising, social marketing, therapy programs, and popular education. The ideas of great thinkers who have theorised about social change including Thomas Hobbes, Michel Foucault, Karl Marx, Max Weber, Jürgen Habermas and Alfred Schutz are briefly considered. It examines how educators can help people identify choices – to agree, question, challenge or defy – and then learn how to make those choices effective.

013131 Education for Social Change 2
6cp
Postgraduate
This subject considers different education, organising and activist strategies being used by movements and organisations pursuing social justice and change agendas. The sites of social change struggles include the environment movement, democracy movements opposed to authoritarian regimes, feminism, disability advocacy, union movement, and local community action projects. This subject extends the work of Education and Social Change 1 by focusing on educational practices. It examines the difference between propaganda and education, and the individual and social change. Key concepts and practices developed by educators engaged in social change are explored, including naming the world, strategic questioning, story-making, dialectical analysis, culture jamming, and organising.

013132 Technology Enhanced Language Learning
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject provides students with the initial computing and multimedia competencies applicable to the teaching and learning of language. Students learn skills in the application and evaluation of a range of computer-based technology within the specific context of language learning. The emphasis is on learning through experience and students are expected to undertake projects relating to the classroom applications of the technologies to which they are introduced.

013135 Literary Theory and Education
6cp
The subject description is available from UTS: Education.

013136 Developing People and Teams
6cp
Postgraduate
This subject explores concepts of team development and contemporary perspectives for developing a team culture in organisations. It examines the nature and types of teams and techniques for improving the communication abilities of team leaders and team members. This subject considers strategies for building and maintaining best performing teams. Topics also include coaching and mentoring in teams, autonomy and empowerment, diversity and teams in global and virtual contexts.

013137 Educational Leadership
6cp
Postgraduate
This subject explores the nature and importance of educational and organisational leadership within a variety of adult learning/workplace contexts. It focuses on modern leadership theories and their application to the educational context. It considers current understandings of effective educational leadership that address educational and organisational challenges including change management. Topics to be explored include the implications of organisational culture for leadership, motives and characteristics of leaders, and issues such as style, cultural diversity, and collaboration.

013138 Teaching and Learning in Higher Education
6cp
Postgraduate
This subject focuses on what is meant by ‘learning’ in the context of higher and professional education. It includes an overview of research on approaches to learning and conceptions of learning and their relevance to students’ prior experiences as learners and educators. It considers the principles of the theory of variation and learning how these principles assist in investigating variation in learners’ understandings and designing learning experiences. This subject also explores learning for an unknown future, issues of transfer of learning, desired outcomes of learning for professional and higher education, and issues of learning and knowing in formal and professional workplace contexts. Online participation is a requirement of the subject.

013139 Assessing Learning
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
In this subject, students analyse assessment practices and policies in educational, learning, training and workplace contexts. The educational and learning issues in assessment and how these relate to the purposes of the assessment are explored. Drawing on sociological research, the subject evaluates assessment paradigms and methods of assessment and their use. Students systematically evaluate assessment practice across a range of educational, learning and training contexts. Students apply a range of current academic and practice thinking to their own practice as an educator with a view to enhancing assessment literacy and improving assessment practices. The content for the subject is structured around three core themes: assessment contexts, professional practices and assessment futures.
**013140 Simulation and Games**
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject examines the scope of the simulations and games field, and introduces theoretical frameworks for their application to particular learning contexts. It uses a practice-based approach to design and usage problems. Relevant theories of human behaviour, social interaction and skill development are considered in relation to the way these inform the design, choices, and use of simulations and games for learning. Concepts examined include 'micro-worlds', online role-play, business management games, social planning games and mechanical simulators.

**013141 Language Programming and Assessment**
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject explores the programming of learning sequences and pathways for English language and literacy, and issues in assessment in the context of language and literacy programs. It introduces knowledge and skills for designing, evaluating and critiquing programs of learning for English language and literacy. Theoretical explanations for progression in language and literacy learning, and processes of design are examined. It focuses on programming at the levels of curriculum, syllabus, and individual units of teaching and learning in a variety of contexts. The subject addresses both informal and formal processes and procedures in language assessment, including designing and critiquing language and literacy assessment instruments. Critical and ethical issues in assessment practices are discussed.

**013142 Adult Learning and Program Development**
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject is designed to provide opportunities for participants to explore the skills and knowledge necessary to be competent designers and facilitators of adult learning. It examines some of the principles and processes relating to helping adults learn as well as a variety of ideas about program development in adult education. The subject is suitable both for those relatively new to adult education and experienced practitioners who have not previously studied adult education in an academic program at tertiary level.

**013145 Culture, Difference and Curriculum**
6cp
Postgraduate
Planning education and training for people with different needs is a central political challenge for those concerned in building a just and democratic society. It is a popular assumption that people of 'different' cultural backgrounds have different educational needs. This subject critically examines this notion that difference can usefully be defined by culture, and looks also at such factors as class, history, identity, gender and politics. The subject links debates about culture and difference directly to the practice of planning curricula that meets the needs of groups with marginal or minority status.

**013146 Using Film for Critical Pedagogy**
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject is aimed at those who are interested in the potential for films to rouse an audience to ask questions and find answers to pressing social issues in the world. This subject is relevant to students if part of their paid or voluntary work requires them to plan strategies that question the status quo or bring about organisational and social change. Over the semester a variety of short films, excerpts from feature films, web-based film and advertisements are screened. Students view films that pose questions, show the world from different perspectives, and seek to facilitate change, be it social, organisational or personal. These are films with ambitious intentions. They seek to rouse, inspire, agitate, and educate on 'big' issues such as work, war, poverty, exploitation, environmental destruction and ill-health. In other words, films aimed at encouraging viewers to think and act. Are these films that are better at this than others? Drawing on theories of learning and change, the subject facilitates discussion and critique.

**013147 Human Resources and Organisational Development**
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
This subject critically evaluates the major theories and debates developed to explain the behaviour of people in work settings and the nature of the organisational context within which such behaviour occurs. It focuses on individual, group and organisational factors influencing the effectiveness of organisations. It provides a detailed analysis of the underlying situational and environmental factors and issues affecting the behaviour of people at work and its impact upon HRD plans and activities. Themes include employee attitudes and behaviour in relation to motivation, organisational performance, motivation, groups and teamwork, decision-making, and the management and development of culture and meaning in organisations. Case studies and exercises are used to illustrate organisational and behavioural issues within the HRD context.

**013148 Initiatives in Aboriginal Education**
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject critically explores Aboriginal initiatives in education through the production of a research project. It examines the different interpretations of policies and programs and their impact on Indigenous Australians. This subject considers the issues raised in conducting and writing research specifically in relation to Indigenous issues, peoples and communities. These include the power of representation and the responsibility of the researcher in this process.

**013149 The Language Literacy and Numeracy Learner**
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject focuses on the factors that influence individual adult learners of language, literacy and numeracy. These factors are studied in four areas: social, cultural, psychological and educational, and include motivation, goals, learning styles and cultural values. The experiences and practices of the individual learner in the field of language, literacy and numeracy are explored. This subject considers the literacy demands of university study and strategies for developing skills in reading and writing for academic purposes.

**013151 Project Management**
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject immerses participants in a number of scalable integrated problem-based learning processes. Students acquire and develop project management skills and related knowledge in a manner relevant to the subject content, through use of purpose-built simulations which model aspects of the cycle of work in standard projects. The subject addresses the nine competencies established in the national competencies framework for project managers and guides participants in the development of strategies for achieving competence at level 3 or 4 of the framework.

**013152 Individual Difference and Vocational Education Teaching**
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject explores the range of individual differences that are likely to be encountered in the vocational education and training (VET) context and examines teaching and classroom management practices most likely to result in effective learning. Developmental psychology is presented as a basis for understanding the different needs of adolescent and adult learners. This subject reviews access and equity policy requirements and the role of the VET teacher/trainer in meeting these requirements. Students also consider strategies and resources for addressing the learning needs of those with special needs.
013153 Professional Experience 1 (Computing Studies) 6cp
Requisite(s): 013040c Computing Studies Teaching Methods 1
Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in the secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013154 Professional Experience 2 (Computing Studies) 6cp
Requisite(s): 013153 Professional Experience 1 (Computing Studies) Undergraduate
This subject centres on professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teach, assist with classes, teach small groups of pupils and classes. In this subject the student analyses and modifies their experiences in order to improve their practice. The student demonstrates knowledge of their subject/content and strategies for effective teaching. This includes effective planning, assessment, and reporting and demonstrating a range of strategies to create and maintain safe and challenging learning environments through classroom management skills.

013155 Professional Experience 1 (Commerce, Business Studies and Economics/Computing Studies) 6cp
Requisite(s): 013039c Commerce, Business Studies and Economics Teaching Methods 1 OR 013040c Computing Studies Teaching Methods 1 Undergraduate
This subject introduces the wide-ranging experiences of a school teacher in secondary school by placement in a school. Opportunities vary depending on schedules and timetables but experiences include situation analysis, orientation, staff meetings, meetings with parents, sport activities and carnivals, supervision duties (e.g. playground duty), assessment, reporting, professional development sessions, and excursions. Teaching begins with co-teaching, working with small groups and providing support to cooperating teachers, and leading up to teaching parts of lessons and whole lessons. It includes close supervision from the cooperating teacher. In this subject the student demonstrates effective communication, knowledge of the subject being taught, planning and assessment for effective learning and improvement in professional knowledge and practice.

013156 Professional Experience 2 (Commerce, Business Studies and Economics/Computing Studies) 6cp
Requisite(s): 013155 Professional Experience 1 (Commerce, Business Studies and Economics/Computing Studies) Undergraduate
This subject centres on professional experience in secondary schools. It provides an opportunity to engage fully in a school experience as teacher, supported by mentoring with cooperating teachers and colleagues. Students observe lessons, team teach, assist with classes, teach small groups of pupils and classes. In this subject the student analyses and modifies their experiences in order to improve their practice. The student demonstrates knowledge of their subject/content and strategies for effective teaching. This includes effective planning, assessment, and reporting and demonstrating a range of strategies to create and maintain safe and challenging learning environments through the use of classroom management skills.

013157 Computing Studies Teaching Methods 3 6cp Undergraduate
This subject examines the role of communications technology in changing classroom environments. It focuses on the integration of the internet into the teaching of a variety of subjects. Students cooperatively create a website with links to subject-specific resources, and the creation of support materials for classroom implementation.

013158 Computing Studies Teaching Methods 4 6cp
Requisite(s): 013040 Computing Studies Teaching Methods 1 Undergraduate
In this subject students create programs of work and design educational experiences in computing studies for secondary school students. The aim is to prepare proficient beginning teachers in computing subjects, and is intended as a foundation for continuing professional development. On completion of this subject students are able to apply their educational studies to the teaching of selected computing subjects; to design, organise and evaluate methods and materials for teaching; and to use their theoretical framework as a basis for their future careers as teachers.

013159 Independent Study Project 2 6cp
Requisite(s): (24 credit points of completed study in C04232 Master of Education OR 24 credit points of completed study in C04231 Master of Arts OR 24 credit points of completed study in C04245 Master of Arts in Teaching English to Speakers of Other Languages) AND (013952 Research Perspectives OR 013122 Understanding Adult Education and Training)
Postgraduate
This subject focuses on the extension of skills and knowledge in an aspect of education or interest to the student. Students design and carry out, in consultation with a member of academic staff, an individual course of study such as a field-based project or an in-depth literature review of a particular subject. Enrolment in the subject is contingent on the student finding a member of academic staff willing to supervise the project. Before enrolment, the student, academic supervisor and subject coordinator must sign an outline of the work with deadlines for the various stages of the project.

013160 Professional Learning and Practice 6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject provides students with opportunities to explore contemporary approaches to professional learning and practice being developed in Australia and internationally. In the context of changing notions of professional learning and inter-professional practices in increasingly global contexts, students critically examine: the different ways learning and practice are theorised; and key issues, such as responsibility, ethics and professional identities. Using recent case studies of research on professional practices in diverse sectors including health and hospitality in Australia and internationally, students gain insights into the ways professionals learn and the links to organisational and workplace learning.

013161 Popular Education and Social Movements 6cp; block; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject explores the relationship between popular education and a variety of social movements in a globalised world. It considers the ways in which politics, strategy and pedagogy are used to mobilise resources to support change-orientated collective action around a wide range of local-global issues. Contrary to conventional wisdom, social movements are not simply about challenging or reinforcing power: as historical and current responses to community or group conflicts and issues, they are also important sites of education, learning and knowledge production. This subject is designed to introduce practitioners and researchers to major educational theories and debates applied to the empirical reality of social movements.
013162 Organisational Learning
6cp; block; availability: exchange and study abroad students with faculty approval
This subject seeks to orientate students to current practices in organisational learning. It examines the various theories of organisational learning from the perspective of the individual, organisational unit and whole organisation. The application of these theories to organisations in various sectors is critically examined and case studies of organisational learning are used to illustrate the impact of organisational learning on the long-term performance of the organisation. The future of organisational learning in the context of economic, social, demographic and technological change is also examined.

013163 New Media and Social Change
6cp; availability: exchange and study abroad students with faculty approval
This subject is part of the Popular Education and Social Change major in the Master of Education but is also relevant to students in master’s degrees in the fields of communication management, media arts production and journalism. There are two features that distinguish traditional media – such as film, images, music, books, magazines and newspapers – from new media. The first is the digital nature of new media technologies, many of which exploit the power of the world wide web. The second, and for the purpose of this subject, more important feature is the participatory and interactive capabilities of new media. This subject examines how new media has, in the last decade, been used to strengthen people’s voice and participation. In particular, the subject explores the ways new media has created opportunities for grassroots groups in communities and workplaces to be positioned in social change campaigns in ways that are more powerful than when they relied on traditional media. New media has been important in enabling participatory action research and the development of popular education projects. In this subject students also learn how to use various new media for hypothetical or real social change projects.

013164 Narrative and Storymaking in Education and Change
6cp; availability: exchange and study abroad students with faculty approval
Storytelling may be what most distinguishes social movements from interest groups and other forms of collective action because it combines two ways of knowing: the feeling associated with narrative and the thinking associated with analysis. Storymaking and storytelling are connected to social movements because they construct agency, shape identity and motivate action. Social movements learn to exercise agency to deal with new challenges partly through the collective construction of narrative. Drawing on theories of learning, storytelling and narrative, plus examining case studies of storytelling in social movements, this subject helps students examine the pedagogy and practice of collective identity construction geared towards promoting social change.

013165 Leading Learning in the Workplace
6cp; weekly; availability: exchange and study abroad students with faculty approval
This subject is designed to assist students in developing their understanding of leadership as it applies in a workplace learning environment. It examines the concept of leadership as opposed to management and the various theories that underpin current leadership studies. It examines the special nature of leadership in a workplace learning environment at both the group and organisational level and looks at the selection, development and mentoring of current and future workplace learning leaders.

013166 Education in Policy Contexts
6cp; availability: exchange and study abroad students with faculty approval
Postgraduate
The focus of this subject is the dynamic, contested and evolving world of policy, particularly as it affects education in Australia. Given that this process is generally poorly understood, and often emerges around contentious or polarising issues, it is important for practitioners and researchers in private and public sectors, civil society and community organisations to understand the complex and changing world of policy. Within this context, the political and ideological frameworks that are linked to broader debates and historical contexts are explored in relation to questions about who participates in making policy and whose interests are being served, or not. The subject also examines theoretical and ideological frameworks that are linked to broader debates and historical contexts.

013167 Contemporary Work and Learning
6cp; availability: exchange and study abroad students with faculty approval
The nature of work is at the core of many debates about contemporary and future society. A critical aspect of these debates is the role of adult education and learning. This subject is concerned with the changing relationship between work, the economy and adult learning and focuses on and debates about the role of adult education in supporting economic and social change and in developing a workforce with the skills and capacities to meet ongoing demands. This subject examines how work has changed over time and its implications for adult education and learning. It considers the changing nature of work and the economy and how adult education might work in such a context. The subject also examines the role of adult education in promoting social change and in supporting the development of an adaptable workforce. The subject examines the role of adult education in supporting economic development and social change and considers the role of adult education in supporting economic development and social change.

013168 Adult Education: Past, Present, Future
6cp; weekly, on campus; availability: exchange and study abroad students with faculty approval
This subject examines the history of adult education and the claims that adult educators have made about the special role and purpose they play. Among these are that the first adult educators were popular educators who used education to create a consciousness of civic duty; that adult education provides a second chance for education, especially in the areas of economic, social, demographic and technological change; and others concentrate on preparing adult educators for work, to assist adults to achieve self-actualisation and see it as developing human and social capital; while others say adult education provides a second chance at education, especially in the fields of literacy and numeracy, and in underdeveloped economies. How might we understand the claims made for adult education in the early 21st century against earlier claims? Is it still a force for social or radical change or has it been conscripted to deliver a flexible and adaptable workforce? Can we even say there is a role for adult education or indeed that the term continues to have a particular meaning? By exploring these issues and questions, this subject also looks at contemporary policy and thinking.

013218 Studio Practice: Painting
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This course is designed as an introduction to the media of clay. Historical and contemporary studies of this medium form a basis from which students are encouraged to explore individual expression whilst learning about clay and ceramic techniques. The course provides opportunities for students to develop knowledge of the history and techniques of ceramic and clay media, with a focus on the appreciation and understanding of the material and its potential for expression through the hand-formed vessel, object or surface. The focus of this course is on the exploration of clay as a medium for the creation of objects and surfaces that are both functional and decorative.

013219 Studio Practice: Ceramics
6cp
This course is designed as an introduction to the media of clay. Historical and contemporary studies of this medium form a basis from which students are encouraged to explore individual expression whilst learning about clay and ceramic techniques. The properties of clay, its sculptural characteristics, safe workshop practice and the firing process pertaining to electric kilns are also addressed in this course.
013401 Professional Experience and Classroom Management 1
6cp

Further information on this subject is available from UTS: Arts and Social Sciences.

013402 Professional Experience and Classroom Management 2
6cp

Further information on this subject is available from UTS: Arts and Social Sciences.

013408 Designing Learning for a Digital Generation
6cp
Further information on this subject is available from UTS: Arts and Social Sciences.

013831 Maths for Numeracy Teachers
6cp; block; availability: exchange and study abroad students with faculty approval

This subject is designed for students who are, or intend to, teach numeracy in a stand-alone numeracy course or in an integrated language, literacy, numeracy course in adult learning contexts including adult basic education or foundation education, TESOL, and vocational education and training in formal and informal adult education settings. The focus of the subject is on developing students' own approaches to teaching the mathematics that they need in their teaching contexts.

For a variety of reasons, including negative experiences of school mathematics, many adults have a fear or anxiety about learning mathematics. Using a range of methods including discussions and reflections to examine the affective dimension of mathematics learning, the subject helps students develop confidence and an effective approach to re-engaging with the learning of mathematics. Through the use of a learning contract the students identify the mathematical areas as relevant for their contexts of teaching, and negotiate how they approach and demonstrate their learning.

013949 The Arts in Supervision and Self Work
6cp

In this subject, students learn about expressive arts therapy practices which can be applied to a variety of arts modalities and settings, including individual therapy, supervision and coaching, group therapy and consulting. Learning is based on application of arts based techniques to one's own personal and professional development through autobiographical arts explorations and working in dyads and small groups. Experiential learning is supported by reading and discussion of key principles, peer feedback and supervision.

013950 Verbal and Body Psychotherapies
6cp

This subject has two streams: one stream examines verbal counselling and psychotherapy skills; the other stream focuses on the importance of the body in the arts therapies. The purpose of both verbal and body-based streams is to provide resources for students' development as empathetic therapists, for increasing self-awareness and expressive range. Experiential work and theoretical background is drawn from various schools of counselling and psychotherapy, somatic education, somatic psychotherapy, rhythm-work and voice-work.

013951 Learning and Change
6cp; availability: exchange and study abroad students with faculty approval

Postgraduate

This subject addresses big picture questions about change and learning. A premise that underpins the subject is that there are significant economic, social, technological and identity changes taking place that suggest educators need to be constantly thinking about their role, practice and context in the process of the changes in their world.

013952 Research Perspectives
6cp; availability: exchange and study abroad students with faculty approval

Postgraduate

The purpose of this subject is to develop research-literate students who understand research practices and processes, are critical readers of research, and who are able to develop ideas about potential research problems and applications of research in their field of practice. The subject explores how research texts are constructed by assumptions about knowledge, values and the nature of reality, and through research activities and practices which produce accounts of and evidence for innovation. The subject engages with a series of research perspectives, exploring key concepts, case studies and developing research literacy skills. The subject thereby encourages students to explore and critically reflect on their own perspectives on knowledge.

This subject introduces research in education through the critique of carefully selected research texts drawn from different research traditions and perspectives. Participants draw on their own experience of professional practice to inform their critical reading of research texts and to extend their understanding of the diversity of contemporary approaches to research.

The subject aims to equip students with skills and knowledge that are relevant both to students who intend to go on to develop and implement research projects themselves (particularly those intending to undertake 013112 Research Design), and those who engage with research at the cutting edge of their field in order to inform the development of policy and practice.

013953 Adult Learning in Context
6cp; availability: exchange and study abroad students with faculty approval

Undergraduate

This subject introduces the theories and philosophies that inform the practice of adult education and the variety of contexts in which adult teaching and learning occur. It examines a number of key practitioners and theorists who have contributed to, or are identified with, the various schools of thought.

Students demonstrate a developing understanding of their own professional practice as educators as they consider their own approaches to learning and teaching, in comparison to the theoretical perspectives on teaching and learning presented in this subject.

013954 Program Design
6cp; availability: exchange and study abroad students with faculty approval

Undergraduate

This subject provides students with the opportunity to explore various approaches to developing programs within different contexts, ranging from the training room to community settings and workplace learning. It assists students to identify, critically evaluate and practice strategies for planning, designing and evaluating programs relevant to a diversity of learners and contexts. The subject provides a critical overview of the formal adult education and training context in Australia.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
This subject critically analyses assessment practices and policies in educational, training and workplace contexts. It examines the social and political context influences assessment paradigms and practices. Students identify and evaluate a range of models and tools of assessment, relating these to educational contexts and learning models. Students also reflect on their own skills development and professional learning needs. The subject is structured around three core content themes: assessment contexts, professional practices and learners and learning.

013956 Professional Practice 1

Undergraduate

In this subject students develop professional skills in teaching/training and the facilitation of learning, workplace training/education, and the work experiences of adults. It has a work-based focus and is supported by theories of adult learning. Students demonstrate the acquisition of skills through practical implementation of new knowledge. This may occur via demonstration of teaching/training skills, design and presentation or facilitation of learning activities, and other specific applications of underpinning knowledge to effective problem solving in a variety of learning contexts.

013957 Professional Practice 2

Undergraduate

In this subject students continue to develop professional skills in teaching/training and the facilitation of learning, workplace training/education, and the work experiences of adults. It has a work-based focus and is supported by theories of adult learning. In this subject students demonstrate the acquisition of skills through practical implementation of new knowledge. This may occur via demonstration of teaching/training skills, design and presentation or facilitation of learning activities, and other specific applications of underpinning knowledge to effective problem solving in a variety of learning contexts.

013958 Language Teaching Methodology

Undergraduate

This subject focuses on the development of language teaching knowledge and skills. It introduces theories and approaches to teaching spoken and written language. Students explore strategies that promote purposeful and communicative language use in relation to specific contexts for language teaching and learning. Topics include approaches to lesson planning and task design, critique and evaluation of current language teaching materials, and application of language teaching theories in diverse settings.

013959 Communication and Learning

Undergraduate

This subject focuses on the professional development of adult educators as communicators in academic contexts such as adult education workplaces and universities. It considers the spoken and written communication skills necessary to become effective members of organisations. The subject also examines approaches for analysing communication events and written texts to provide tools for understanding spoken and written language use in a variety of situations. Topics include the relationship between teaching and learning and the nature of human communication, academic speaking and listening, academic writing, and different text types of written communication in learning environments.

013960 Individual Communication in the Workplace

Undergraduate

This subject examines communication processes and skills used by individuals in the workplace. It explores theoretical approaches to individual communication in the workplace, including transmission and transactional approaches. The focus is on assisting educators to develop their own and others' interpersonal skills. Both oral and written dimensions of workplace communication are analysed, including development of public speaking, self-presentation and interpersonal skills. Topics to be considered include nonverbal communication, emotional intelligence, listening, questioning, reframing, assertiveness, conflict management, intercultural communication in the workplace, and developments in interpersonal skills training.

013961 Team Communication in the Workplace

Undergraduate

This subject forms part of a major sequence providing specialist knowledge for adult educators wishing to teach/train in areas of communication studies. In this subject communication processes and skills are examined to assist educators to facilitate the learning and performance of teams in the workplace. In particular, educators investigate a variety of communication techniques to enhance team quality and productivity, increase team member satisfaction and motivation, improve performance as a team leader and/or team member, achieve and maintain team cohesiveness and interpret communication interactions within the team.

013963 Cultural Diversity at Work

Undergraduate

This subject examines the workplace in a social and cultural context and introduces the complexities of learning and working with diversity. It provides participants with the knowledge and skills to identify and understand the sociopolitical nature of cultural diversity and how this has developed in Australian society and its workplaces. The subject reviews Australia’s cultural history and how it is relevant to the changing work environment and the changing nature of work in an increasingly globalised world. Finally, the subject investigates and analyses practical applications of approaches to working with and managing cultural diversity.

013966 e-Learning Experiences

Undergraduate

This subject introduces the concept of e-learning and its application and applicability in an organisational context. It explores a range of technology-mediated learning tools and examines them from both a personal and organisational perspective. Case studies examining organisations currently employing e-learning strategies highlight workplace issues and are critically analysed in comparison with the experiences gained from participating in an e-learning short course.

013967 e-Learning Design

Undergraduate

This subject uses the knowledge and experiences developed in 013966 e-Learning Experiences to identify and examine theories that underpin the development of e-learning content within an organisational context. The subject focuses on the construction of e-learning environments in the organisational context by using a problem-based approach in which students analyse learning contexts and design strategies informed by the application of learning theories, visual communication and multimedia principles, and selection of educational technologies. Students also develop a basic level of proficiency in a number of educational technologies in order to review and evaluate the suitability for the organisational context.
013970 Using Information Technology for Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject introduces students to an understanding of information technology and computer systems as they apply to educational and human resource development contexts. On completion of this subject students should be able to effectively use computers and other information technologies in educational and training contexts to solve and document relevant problems. The understanding and skills developed are designed to promote confidence in the operation of computer hardware and software. The subject covers the educational use of computers in the application areas of word processing, databases, spreadsheets, graphics, multimedia and communication. The subject also focuses on the development of information literacy. Information literacy is related to information technology skills but is broader in its application. It furnishes the basis for life-long learning and is common to all contexts of teaching and learning at all levels of education.

013971 Teaching and Learning Numeracy
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject provides students with opportunities to apply their organisational learning (OL) knowledge and skills developed prior to, and during their final year of undergraduate study. For part of the semester, students use an interactive learning environment created as an ‘organisation in the classroom’ simulation to develop an understanding of forces at work within human systems, groups and organisations. Students create an OL strategy for a particular organisational context that builds upon their knowledge and assessment of organisational learning theories and practices and integrates their understandings of organisations, change and contexts for learning. The completed assessments provide examples of critical theoretical readings, group-based analysis of organisational barriers to learning and the design of a OL strategy that can contribute to professional practice in organisational learning and transfer to students’ workplaces.

013972 Organisational Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The subject provides students with opportunities to apply their organisational learning (OL) knowledge and skills developed prior to, and during their final year of undergraduate study. For part of the semester, students use an interactive learning environment created as an ‘organisation in the classroom’ simulation to develop an understanding of forces at work within human systems, groups and organisations. Students create an OL strategy for a particular organisational context that builds upon their knowledge and assessment of organisational learning theories and practices and integrates their understandings of organisations, change and contexts for learning. The completed assessments provide examples of critical theoretical readings, group-based analysis of organisational barriers to learning and the design of a OL strategy that can contribute to professional practice in organisational learning and transfer to students’ workplaces.

013973 Adult Education Policy in Context
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject is designed to create critical awareness and understanding of education policies in Australia, particularly adult education, as they affect teaching, learning and the provision of courses across NSW and Australia. The subject provides an historical context for understanding important policies and an appreciation of the effect that policies have on professional practice in different fields of specialisation.

013974 The Psychology of Adult Learning
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject considers the major psychological approaches to adult learning and teaching. These include processes for developing cognitive and performance skills, variables affecting acquisition, retention and transfer of knowledge and skills, and a range of learner characteristics that affect learning. The subject explores how to apply an understanding of psychological principles when making decisions affecting the teaching and learning process.

013975 Designing and Developing Simulations and Games
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject introduces the world of ‘play as learning’. It explores current theoretical frameworks relating to the selection, design and development of simulations and/or games for a variety of contexts. Basic design principles are introduced including psychological theories relevant to cultural factors, language issues and other specific characteristics. The subject provides a theoretical underpinning and related skill development for choosing, adapting, designing, constructing and managing active learning contexts. Exemplar models of simulations and games from a variety of sources are examined.

013976 Strategic Human Resource Development
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject extends students’ awareness of the diverse practices of human resource development (HRD) as an area of organisational activity. It emphasises the importance of integrating HRD practice and activity into the broader scope of organisational strategic directions and examines activities related to the development of all employees to achieve desired organisational outcomes. While some attention is directed to traditional approaches to organisational training, this subject particularly examines a diverse range of alternate learning, organisational development and performance improvement strategies which can be used to enhance organisational learning and facilitate organisational change and development.

013977 Teaching and Learning in Practice
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject introduces principles and practices associated with both teaching and facilitating learning, which are relevant for a range of adult learning contexts. As such the subject both extends learner understanding of a range of concepts introduced in other foundation subjects, as well as providing an introduction to more specific subjects which focus on learning and development in more specialised contexts (e.g. education institutions, organisations, community sector).

013978 Research and Inquiry
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject aims to develop an understanding of the relationship between research and professional practice. In particular, it develops an understanding of how research is used to shape, inform, critique and/or change practice. It focuses on developing research literacies that enable professional educators to evaluate research texts relevant to their field of practice, as well as design ethical research methods and justify their appropriateness for addressing professional problems and/or issues that arise in their professional practice.

013979 Organisational Learning and Change: Local and Global
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
In this subject students study three arenas where there are intense efforts to lead and facilitate change. The first arena is organisational management with a focus on improving organisational learning, performance and productivity. The second arena focuses on workers and community groups that are concerned also about quality of life, work conditions and corporate social responsibility. The third arena is that of large organisations seeking to lead and facilitate change for environmental sustainability. The subject is designed to provide a counter-point to the widespread interest only in changing organisational effectiveness through the development of people (or ‘human capital’).
013980 Identity, Culture and Communication
6cp; weekly and block schedules to be developed by lecturers to fit in with the delivery modes
Undergraduate
This subject aims to develop an understanding of the relationship between identity, culture and communication and the importance of this relationship in both professional and personal contexts. It explores identity and culture as socially constructed and dynamic, and examines these concepts in relation to the individual and society, as well as their relationship to learning and teaching. The subject also extends students' interpersonal and intercultural communication skills through an understanding of how language is related to social contexts.

013981 Teaching Aboriginal Studies
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject focuses on developing competent teachers of Aboriginal studies through practice and critique. It considers a range of issues, strategies and resources for presenting information about Indigenous Australian studies. This subject explores a number of approaches to translating social content in learnable/teachable episodes and examines ethical issues in the teaching of Indigenous Australian studies. A range of resources and Indigenous Australian studies sessions are critiqued through peer assessment.

013982 Aboriginal Cultures
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
The subject description is available from UTS: Education.

013983 Academic Literacies in TESOL and Applied Linguistics
6cp
Undergraduate
This subject is designed to assist postgraduate students for whom English is a second language, particularly international students. It develops students' academic literacies in the fields of TESOL and applied linguistics by analysing key research literature and supporting students to develop the genres and grammar of second language (L2) writing. The subject additionally develops competence in spoken communication in English-speaking settings.

015033 Programming for Community Learning
6cp
Undergraduate
This subject engages with concepts and practices of approaching and developing community learning programs to empower social action and change. It posits itself through identifying and building on community strengths and with theories and practices of appreciative inquiry and asset-based community development. Learning is approached from a positive rather than deficit foundation that aims to give voice to community members on community issues.

015144 Education and Cultural Diversity
6cp
Undergraduate
Australia is one of the most culturally and linguistically diverse countries in the world and is still in the process of developing appropriate ways of responding to this diversity in terms of equity and social justice; and in terms of valuing and maximising the advantages of such diversity. Adult educators working in a range of community and Aboriginal contexts need therefore to develop an understanding of their own and others' cultures in order to operate effectively and flexibly within such a culture of change.

015342 Teaching and Learning in Diabetes Education
6cp
Postgraduate
This subject aims to help students: identify and critique an overall framework which links the many elements that make up the teaching and learning process; use this framework to improve their professional performance in the design, delivery and evaluation of diabetes education learning sessions in both group and one-to-one contexts; identify various assumptions about what constitutes effective teaching and learning and evaluate their own levels of performance against these indicators; identify and develop the skills necessary for effective self-directed professional learning; and use these to guide their own development as diabetes educators.

015343 Programming for Diabetes Education
6cp
Requisite(s): 015342 Teaching and Learning in Diabetes Education
Postgraduate
This subject aims to help students develop their understanding of the theory and practice related to developing, implementing, supporting and evaluating a variety of diabetes education programs in response to the needs, demands, capabilities and interests of diabetes education clients and providers.

015356 Learning in Diabetes Education
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject aims to develop students' understanding of how to promote learning in diabetes education. Adult learning principles are examined in the context of theories of health behaviour and the implications these have for practice. Practical workshop sessions supported by a range of learning materials, provide students the knowledge to design, deliver and evaluate diabetes education. This subject also facilitates students' ability to become effective self-directed professionals by providing strategies for them to reflect on their own development as diabetes educators.

015381 Thesis Development and Appraisal
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject is designed to develop the competencies necessary to plan and write an honours thesis. It also aims to critically develop the knowledge and skills required to critique research proposals, plans and outcomes. It contributes to the course aim by developing critical thinking about applied research which in turn contributes to academic thesis writing skills.

016102 Thesis (Education)
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject is the thesis component for part-time students of the Master of Education (Honours). Students are required to complete a thesis of 50,000 words.

016715 Analysing Professional Practice
7cp
Postgraduate
This subject is designed to help students develop a critical posture in relation to their educational practice and the sites in which they work. A relevant framework for critically analysing practice is developed and then applied, illustrated and refined using the students' educational sites as case studies. Students are required to present their own case study and maintain a portfolio of written comments on the presentations of other students.

018723 Research Dissertation 1 (Education)
24cp
For subject description, contact UTS: Education.

018724 Research Dissertation 2 (Education)
24cp
Requisite(s): 018723 Research Dissertation 1 (Education)
There are also course requisites for this subject. See access conditions.
For subject description, contact UTS: Education.

019950 EdD Thesis: Education
0cp; availability: not offered to exchange and study abroad students
The subject description is available from UTS: Education.

019981 Thesis (Doctor of Education)
0cp; availability: not offered to exchange and study abroad students
The subject description is available from UTS: Education.
019982 PhD Thesis: Education
6cp; availability: not offered to exchange and study abroad students
Postgraduate
The subject description is available from UTS: Education.

020705 Educational Drama
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject develops a foundation knowledge in the theory and practice of educational drama; explores a variety of drama strategies and forms an approach for developing literacy; investigates the role of the teacher in developing literacy through drama; develops educational drama resources and teaching materials suitable for use in the school; evaluates the acquired knowledge through talk, reading, enactment and writing; and examines the role of educational drama across the key learning areas.

021412 Educational Computing Study 2
6cp
Requisite[s]: 021311 Computer-mediated Learning for Children
Undergraduate
This subject focuses on the use of integrated packages as information-handling and problem-solving tools, with specific reference to educational context. Students are introduced to spreadsheets and further work is done on databases. Finally, concept mapping software is studied from a student learning perspective as well as a teacher productivity tool.

021702 ICT in Primary Education: Current Issues and Applications
6cp
This subject provides an overview of contemporary social issues, curriculum issues and emerging learning technologies relating to the use of ICT in K-6 education. Strategies are developed for keeping up-to-date with K-6 learning trends and developments, including new pedagogical approaches. Sessions are mostly hands on and students develop related technical skills (no experience necessary).

022203 HSIE Study 2: Conflicts and Resolutions
6cp; 3hpw
Undergraduate
Developing the skills, attitudes and self-esteem to productively manage conflict is essential as a means of facilitating learning. It is also a vital life and vocational skill, argued as important in the home and workplace as in international affairs. This subject allows students to explore the causes and possible resolutions to conflicts. Students also explore examples of conflicts as part of contemporary and historical sociologies, critically analysing the actions and possible motivations of the main players.

022204 HSIE Study 3: Multicultural Australia in its Asia-Pacific Regional Context, Implications for Teaching
6cp; 3hpw; availability: exchange and study abroad students with faculty approval
Undergraduate
Australians are becoming increasingly aware of regional and global shifts in power and influence, particularly the ‘emergence’ of the Asia-Pacific region, and the implications this has for Australia in terms of its links with the region. At the same time, an awareness of Australia’s Aboriginal history, and now, of Aboriginal and non-Aboriginal shared histories and futures, is emerging. This subject investigates some of the implications this has for teaching in the Australian context. It examines the nature and theoretical underpinnings of intercultural studies, and looks into the dynamics of the Australian classroom in the national, regional and global context. The subject explores some of the current debates in Australia with regard to multiculturalism, immigration, Aboriginal issues, refugees, etc., and their implications for teaching.

022601 Learning Beyond the Classroom
6cp
Undergraduate
An important component of teaching involves taking students outside the classroom. Research increasingly shows that teaching strategies need to be specifically developed for these learning environments, and that classroom teachers are often not aware of the range of options available for making these experiences meaningful. This subject investigates the research base and then looks at applications of its findings. The subject includes considerable ‘learning outside the classroom’.

022602 Independent Study
6cp
Advanced study elective
Undergraduate
This subject allows students to develop their own learning project in consultation with a member of the academic staff. The project may take the form of a reading course, a field-based study or an action-research project relating to an aspect of primary school education.

022603 Teaching Across the Curriculum
6cp; availability: exchange and study abroad students with faculty approval
Elective
Undergraduate
This subject focuses on the practical and creative ways in which teachers can incorporate aspects of the curriculum into integrated units. It is based on the philosophy that learning is most successful within meaningful contexts and when it is holistic rather than fragmented. Ways in which cross-curricular teaching can be programmed, assessed and evaluated are also explored. In recognition of the demands of programming for teachers, the integration of ICT is also examined.

023001 Psychology of Secondary Students
6cp
Postgraduate
The aim of this subject is to provide students with an understanding of the principles and patterns of human growth and development in the secondary school years; a knowledge of types of learning and their interaction with teaching approaches; and a knowledge of effective ways of interacting with their students.

023122 Professional Practice in Personal Development, Health and Physical Education 1
6cp
Postgraduate
This subject is divided into two modules, each requiring two hours attendance a week. Module A examines the Board of Studies’ (BOS) years 7–10 PDHPE syllabus. Module B examines teaching and learning issues, with a particular emphasis on pedagogies in the BOS years 7–10 PDHPE syllabus. The emphasis of this subject is on professional practice, that is, the essential knowledge and skills necessary to enter the profession. The focus is on the syllabus and methodology, as distinct from the content of the teaching programs.

023123 Professional Practice in Personal Development, Health and Physical Education 2
6cp
Requisite[s]: 023122 Professional Practice in Personal Development, Health and Physical Education 1
Postgraduate
This subject is divided into two modules, each requiring two hours attendance a week. Module E examines the first stage 6 PDHPE syllabus (preliminary and HSC courses). Module F examines the new 25-hour PDHPE course called Crossroads. Together with the modules in 023126 Learning in Personal Development Health and Physical Education 2 (modules G and H), all four modules provide students with the opportunity to examine relevant school syllabuses and policies and apply these documents in their preparation of programs and lessons. It develops students’ professional understanding and skills and encourages them to develop as reflective practitioners by providing models of teaching excellence. The subject comprises compulsory modules which enhance students’ ability to teach PDHPE.
023124 Professional Practice in the Secondary School  
6cp  
Postgraduate  
This subject combines theory with practice to provide students with the skills and understanding required to begin to teach in a secondary school. This subject develops students' teaching approaches and strategies to promote learning with the skills and understandings required of an effective beginning teacher. This subject is closely associated with practicum. An emphasis is placed on professional commitment, current developments in teaching and learning, and reflection on teaching practice.

023125 Learning in Personal Development, Health and Physical Education 1  
6cp  
Postgraduate  
This subject consists of two strands which together enable students to investigate the sociological and philosophical dimensions of education. In the social bases strand, students explore social theories which seek to explain the social forces shaping classrooms and the ways in which school and society interacts in the Australian context. They also investigate how social characteristics influence the educational outcomes of certain social groups and current policies and programs which address these influences. In the critical issues strand, students begin to clarify their own educational philosophy. They do this by analysing and evaluating a range of positions on critical educational issues which confront secondary educators at the present time. From this, students determine their own stance on these issues and identify how this will impact on their professional practice.

023156 Professional Experience 6: Promoting Student Centred Learning  
6cp  
This subject extends the knowledge and skills base of students, enabling them to make increasingly informed decisions concerning teaching practices that place the primary student at the centre of his or her learning. It addresses both the theoretical underpinnings and professional skills of promoting learner interaction, self-initiated thinking and enquiry. It also examines the phenomenon of individual differences in primary education and associated practical implications for learning and teaching. Further, this subject explores learning beyond the classroom, looking at the different contexts and considerations that are needed when taking students outside the school environment and in providing students with the best possible opportunities for learning with their school class and for life-long learning.

023157 Professional Experience 7: Reflection on Educational Practice  
6cp; availability: not offered to exchange and study abroad students  
This subject is structured so students reflect on teaching practices; analyse the school as a workplace; examine, test and evaluate their theories of teaching and learning; explore educational problems; and critically evaluate methodologies to solve educational problems. The field experience component of this subject occurs in a regular primary school. The placement articulates with Professional Experience 6, which is intended to occur in the same setting. The field experience has both distributed and block elements.
023158 Professional Experience 8: Analysing Current Issues in Australian Education
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This final-semester subject is designed to help students draw together their teacher preparation experiences as they engage with a number of major professional issues. Issues examined reflect current trends and demands affecting teaching, learning and schooling in Australia, enabling students to critically analyse these and develop an appropriate and well-supported response that guides their future professional practice. Students’ engagement in their professional experience program is continued during this semester and culminates in the associate teacher program. The field experience component of this subject occurs in a regular primary school. The placement articulates with the prerequisite subject, which is intended to occur in the same setting. The field experience has both distributed and block elements.

023412 Education Study 2: Value
6cp; availability: exchange and study abroad students with faculty approval
Further information on this subject is available from UTS: Education.

023505 Educational Research
6cp
Undergraduate
This subject aims to develop students’ understanding of research through their active participation in it. With the support of the lecturer, students undertake a sustained research investigation of a particular avenue of interest to them, within a broad and fruitful research focus of relevance to the class community. In addition to developing students’ appreciation of research by doing it, the subject deepens their understanding of the broad spectrum of educational research paradigms. This subject is designed both as an essential preparation for the Bachelor of Education (Honours) course and as an elective for third-year Bachelor of Education students.

023625 Research Seminar
6cp
Undergraduate
This is an advanced research subject which explores the ranges of paradigms, methods, and procedures appropriate for disciplinary and interdisciplinary-based research investigations. Both quantitative and qualitative methods are analysed, particularly as they relate to the student’s thesis work. Focus is on critically evaluating research from a range of perspectives and developing an appropriate methodological approach for the student’s thesis.

023634 Honours Thesis 1
12cp
In this subject students discuss and develop understandings and confidence to design and begin to implement a research study investigating an educational research question. Students develop their literature and methodology and undertake data collection and analysis. The subject culminates in 023635 Honours Thesis 2 with the submission of an honours thesis.

023635 Honours Thesis 2
12cp
The subject description is available from UTS: Education.

023821 Special Education 1: Managing Challenging Behaviours
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject develops an understanding of the theoretical approaches to programming for students who have challenging behaviour. It also explores the ways in which these approaches have been researched. It examines the criteria for selecting different preventive and management approaches. Participants are given the opportunity to discuss concepts raised in the lecture/workshop sessions, from the perspectives of their experiences in the practicum. The subject is compulsory for those seeking accreditation to teach in special education.

023822 Special Education 2: Preventing and Remediating Difficulties in Reading and Spelling
6cp; block; availability: not offered to exchange and study abroad students
Undergraduate
This subject examines the teaching of early reading and spelling to students who fail to learn from normal instructional techniques. Participants analyse and evaluate research on reading and spelling acquisition, apply the findings to the instructional needs of students, and examine and evaluate diagnostic and assessment tools both formal and informal in reading and spelling.

023823 Special Education 3: Educating Students who have Difficulties with Written Text
6cp; availability: not offered to exchange and study abroad students
Undergraduate
This subject examines ways in which teachers can support and assist students who have difficulty in understanding their school texts and school writing tasks. Strategies for increasing comprehension, and their applicability to classroom situations, are investigated. The effectiveness of various approaches to facilitating writing is evaluated and attention is given to both upper primary and high school reading and writing, with an emphasis on non-fiction content areas.

023824 Special Education 4: Numeracy Instruction for Students with Learning Difficulties and Disabilities
6cp; availability: not offered to exchange and study abroad students
Undergraduate
In this subject participants critically examine key issues, research and approaches in numeracy instruction for students with learning difficulties and a range of disabilities. They are provided with information and experiences which assist them to determine and utilise appropriate assessment tools and develop programs based on the assessment results. Participants examine adaptation of mainstream mathematics curricula and functional numeracy based on individualised ecological inventories. The role of language in numeracy instruction is also examined, and appropriate and motivating activities and teaching strategies to assist students to effectively learn are investigated in detail.
**023825 Special Education 5: Educating Students with Moderate and High Support Needs**

6cp  
Undergraduate

In this subject, participants critically examine key issues and approaches in the education of people with moderate and high support needs. The evaluation of curriculum models and assessment tools appropriate for students with moderate and high support needs is a component of this subject. Use of assessment data to develop individual education programs to meet students’ needs across a range of curricula domains is examined. This subject also involves examination of a variety of transition processes that persons with high support needs may be involved in throughout their lives.

**023826 Special Education 6: Educating Students with Delayed or Disordered Communication**

6cp  
Undergraduate

In this subject, students acquire an understanding of communication delays and deficits in the context of current theories of language acquisition in oral and non-oral forms; evaluate the validity, reliability and educational usefulness of commonly used methods of assessment; consider the issues and procedures involved in the choice of a communication system; and identify effective facilitation methods for both oral and non-oral communication in a wide range of contexts.

**023881 Special Education Professional Experience 1: Assessment, Programming and Evaluation**

6cp  

The subject description is available from UTS: Education.

**023999 Research Literacies**

9cp  
Postgraduate

This subject enables students to become competent, sophisticated readers of research by examining the conventions and assumptions within the different research traditions. The subject is designed to enable students to engage in collaborative appraisal of recent research studies as well as to individually analyse and evaluate a study pertinent to the student’s field of practice.

**024213 English Education 3**

6cp; availability: exchange and study abroad students with faculty approval.  
Requisites: [024211 English Education 1] OR [024212 English Education 2]

Undergraduate

This subject develops an understanding of the implications of a multicultural society for TESOL teaching; examines the sociocultural basis of language and the implications for language methodologies; explores appropriate language pedagogy relevant to the field of TESOL; examines ways of promoting a positive learning environment for the language development of the bilingual/multilingual student; examines assessment techniques for spoken and written language; examines the effectiveness of a language teaching program within the school context; and explores language for learning across the key learning areas.

**024411 English Study 1: Shapes and Patterns in Literary Narrative from Sendak to Shakespeare**

6cp; 3hpw  
Undergraduate

This one-semester subject introduces the concept of literature as a continuum which includes the fairy tales of the Brothers Grimm and the novels of the Bronte sisters, the children’s stories of Maurice Sendak and the plays of William Shakespeare. It develops and encourages theoretical understandings of literary concepts, of narrative, and of narrative and character patterns and archetypes. A wide range of children’s books and other literary texts is studied, with particular reference to the prescribed texts. Students are expected to develop and demonstrate an understanding of a range of literary concepts and research skills in the fields of literature and literary theory.

**024412 English Study 2: Images of Australia, the Place and the People – Literary Representations in Prose, Poetry and Drama**

6cp; availability: exchange and study abroad students with faculty approval.  
Undergraduate

This subject introduces a broad study of Australian literature within a context of the literature of place. There are considerations of such concepts as Australia as an alien place, as the place of ‘exiles at home’, the bush mystique and the dream of paradise; Aboriginal and multicultural Australia; literary representations of the Australian male (‘mates’ and the ‘dinkum Aussie’) and female (a crisis of identity for ‘the drover’s wife’); mindscape and landscape; and the notion of a ‘subjective Australia’. Prose, poetry and drama are studied. A wide range of material is discussed, but there is particular reference to the selected texts. Students are expected to develop and demonstrate an understanding of a range of literary concepts and research skills in the fields of literature and literary theory.

**024413 English Study 3: The Literature of Protest**

6cp; 3hpw  
Undergraduate

This one-semester subject introduces considerations of literature not just as art but as agency. The voices of writers have not only changed old worlds, they have shaped new worlds. This course focuses on such changes. Texts as diverse as Hard Times (Dickens) and One Flew over the Cuckoo’s Nest (Kesey) are studied, as are the Romantic poets, T. S. Eliot, George Orwell and Aleksandr Solzhenitsyn. Two Shakespearean plays are also studied within a framework of Elizabethan concepts of world order. A wide range of material is discussed, but there is particular reference to the selected texts. Students are expected to develop and demonstrate an understanding of a range of literary concepts and research skills in the fields of literature and literary theory.

**024414 English Study 4: Cultural and Textual Cross-currents**

6cp  
Undergraduate

This subject focuses on two different types of appropriation. First, it studies the appropriation of English by the indigenous populations of post-colonial countries, as the chosen language of their unique cultural voice. Secondly, it studies the appropriation of texts of the literary ‘canon’ by moviemakers as they ‘take over’ and rewrite literature texts for the screen. Several texts are studied and comparisons are made between the original texts and cinematic versions of, for example, Shakespeare’s plays and the novels of Jane Austen. How these different versions reflect on the original is explored. A wide range of material is discussed, but there is particular reference to the selected texts. Students are expected to develop and demonstrate an understanding of a range of literary concepts and research skills in the fields of literature and literary theory.
024421 Children’s Theatre and the Creative Arts 1: Overview of World Theatre, Production Roles, Script Writing
6cp; 2hpw
Undergraduate
This subject introduces knowledge and understanding of drama in an historical and cultural context with a focus on its practical and multidisciplinary nature and includes the study of the roles of a production process, as well as scriptwriting and adaptation. Emphasis is given to scriptwriting, story adaptation, and play building productions for young people.

024422 Children’s Theatre and Creative Arts Study 2: Acting and Performing Skills - Genres for Children
6cp; 3hpw
Undergraduate
This one-semester subject introduces the student to the acting techniques and skills required to perform for children at different stages of development – developing imagination, audibility, voice production, concentration and an awareness of the skills involved in interpreting a role and developing a character.

024423 Children’s Theatre and Creative Arts Study 3: Production and Direction
6cp; 3hpw; availability: exchange and study abroad students with faculty approval
Undergraduate
This one-semester subject develops understanding about the roles of the producer and the director in the performance process. Other creative arts skills are also developed as students explore the use of lighting, scenery and costuming for performance. A cross-discipline approach is utilised and the notion of theatre as collaboration is highlighted.

024424 Children’s Theatre and Creative Arts Study 4: Staging Performances
6cp
Undergraduate
This subject focuses on working towards and presenting a performance for children. The performance may include the multidisciplinary skills of dance and music and partially involves the children in the performance so that they are able to have a total theatre experience. The performance brings together the students’ acting skills, knowledge of theatre forms and expertise in stage management, lighting, scenery and costuming.

024705 Children’s Literature and Multi-l literacies: Teaching Critical, Cultural, Visual and Digital Literacies through Childrens Books
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject develops advanced understanding of children’s literature texts and of creative and innovative ways to present these texts in a classroom. It explores the historical sources of children’s literature, and makes special reference to the development of Australian children’s literature. A wide range of material is discussed, but there is particular reference to the selected texts. Students are expected to develop and demonstrate an understanding of a range of literary concepts and research skills in the fields of literature and literary theory.

024713 Teaching English to International Students
6cp
Undergraduate
This subject develops students’ understanding of the learning of a second language. It examines a range of practices for teaching English to speakers of other languages and raises awareness of cultural and linguistic diversity. This subject is compulsory for all students undertaking an international practicum program. In Autumn semester, the subject is offered only to students accepted into an international practicum program in Thailand, China or Samoa. In Spring semester, the subject is available to any students with an interest in teaching English to international students. It is assessed on a pass/fail basis.

024913 Literary Theory
6cp
Postgraduate
This subject considers literary and cultural theory particularly in relation to its emerging applications in the fields of education and educational research. It outlines the major historical movements, from Plato and Aristotle to post-modernism, and introduces such topics as the idea of the characteristic, subjectivity, focalisation, metaphor, the influence of nineteenth century social theory, feminism and gender studies, historicism and new historicism, postcolonialism, and ideology. It refers, as appropriate, to the work of Marx, Foucault, Barthes, Lacan, Deleuze, Bourdieu, Baudrillard, Bakhtin, Gadamer, Habermas, Kristeva, Derrida, Butler, Chodorow, Said, Spivak, Eagleton, and others.

026411 Music Study 1
6cp
Undergraduate
This subject comprises aural musicianship in the areas of melodic dictation, rhythmic dictation, chord identification and playing back melodies on keyboard; an overview of western music; the use of information technology in music; and selecting choral music, performing in a choir and conducting a choir.

026412 Music Study 2
6cp
Undergraduate
This subject comprises aural musicianship in the area of sight singing; focusing on renaissance and baroque music; arranging music for small ensembles using computer software; and developing music lessons for the primary school.

026702 Music and Society
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject develops an awareness that music is both a reflection and a product of the society from which it comes. Music genres and traditions from a variety of musical cultures are studied. Music technology is used to create compositions in the style of each culture. Dances, songs and instrumental ensemble works are also explored.

027411 PDHPE Study 1: Theory and Practice of Personal Development Health and Physical Education and Support
6cp
Undergraduate
This subject is designed to provide students with an opportunity to consolidate their learning about integrating PDHPE and its relation to school sport. It focuses on school students' health and physical activity needs and developing their knowledge and movement skills. It also considers safety implications for teaching.

027412 Personal Development Health and Physical Education: Teachers and Physical Activity
6cp; availability: exchange and study abroad students with faculty approval
Undergraduate
This subject is designed to elaborate school students' physical activity needs and fundamental movement skills. It is geared towards developing best practice for lifelong learning about the health habits of physical activity. Special emphasis is given to fitness principles, games skills, competitions and carnivals.

028222 Society, Science, Technology and the Environment
6cp
Undergraduate
This subject studies how science, technology, environment and society interact and dynamically influence each other in ways that impact upon our past, present and future. To understand many events, experiences, problems and issues in our world we need to draw on a range of disciplines. This subject uses themes and issues to explore key ideas relevant to science, technology, society and environment. These are integrated with practical, creative and cultural contexts as
028412 Science and Technology Study 2: Science and Technology in Daily Life

This subject is designed to provide students with a sound knowledge base from which to draw, as well as a working understanding of the processes and skills of science and technology. It looks specifically at the workings of everyday items and processes, and emphasises Australian scientific endeavour. The emphasis is on broadening and extending understanding in science and technology through an integrated approach which removes disciplinary boundaries.

028413 Science and Technology Study 3: Issues in Science, Technology and Society

This subject aims to develop ideas about the nature of science and technology and its impact on society. Students investigate issues embedded in a range of contexts—social, cultural, political, historical and economic. Ethical considerations are raised in order to present a reasoned and informed understanding of the issues. Students acquire knowledge and appreciation of the contribution made to the field of science and technology in Australia and in other cultures. A range of indigenous and appropriate technologies is also studied. Students have opportunities to investigate areas of personal interest as part of the assessment criteria. As prospective primary teachers, students are able to select appropriate strategies for the students in their care based on an informed understanding of issues relating to science, technology and society.

028414 Science and Technology Study 4: Planet Earth

This subject develops an overall view of the structure and systems of planet Earth incorporating information gained from all science disciplines. Students study interrelationships between biological and physical systems, a range of environments with particular emphasis on the Australian environment and investigate global issues relating to responsible environmental management. Students have opportunities to investigate areas of personal interest as part of the assessment criteria. As prospective primary teachers, students are able to select appropriate strategies for the students in their care based on an informed understanding of issues relating to this planet.

029410 International Study

This subject is designed to enhance students’ cultural awareness and understanding through first-hand experience of living and studying in a non-English-speaking culture. It provides students with the opportunity to spend one semester at an overseas university studying the language and culture of the host country and participating in education subjects which are taught in the English language. Students visit schools in the host country, as well as undertake excursions to places of cultural and historical significance. The number of places available in this subject is determined by the number of overseas students wishing to spend an equivalent semester on exchange studying at UTAS. If there are more applications for the International major than there are places available, a ballot is held to allocate places. Students undertaking the international major are responsible for meeting their own travel and living expenses for the semester abroad. Normal HECS arrangements apply but there are no extra tuition fees. Host institutions include Jonkoping University in Sweden and Haagse Hoogeschool in the Netherlands. The international major takes place in semester 5 of the Bachelor of Education program.

11204 Integrated Services

Undergraduate

This subject aims to develop students' understanding of energy, water, air, fire, transport, security and communications systems in urban and building environments. The subject seeks to equip students with the ability to integrate these engineering systems into architectural projects to enhance their performance and adaptability. The subject covers the fundamentals of power infrastructure and electrical services, water infrastructure and hydraulics, air quality and HVAC systems, fire services engineering, urban transport infrastructure and building vertical transport, security and communication systems. Multidisciplinary teamwork and strategies for integrating engineering systems in building and architectural projects is also discussed.

Typical availability

Spring semester, City campus

11205 Architecture Culture and Environment

Undergraduate

This subject is a foundational introduction to the ways in which architecture is influenced by both culture and environment. It is designed to synthesise and combine an introductory level of architectural history and theory with a variety of cultural and environmental concepts, and to critically examine boundaries between these by highlighting shifts, differences and commonalities. The subject focuses on architecture’s response to climate, construction traditions and available resources, as well as the role of social and cultural developments in architecture. It aims to foster an awareness of issues of cultural and environmental values. It also addresses value systems and ethical positions as they relate and influence ecological impact and environmental design.

Typical availability

Autumn semester, City campus

11206 Introduction to Construction and Structural Synthesis

Undergraduate

This subject consists of an introduction to the principles involved in the integration of structure, construction, and material performance in architecture. This is undertaken by studying and analysing historical and contemporary precedents, where the performance of materials and their contribution to the stability and structural integrity of elements and systems design within the built object are clearly demonstrated. Students are further expected to demonstrate these principles by integrating the knowledge gained of materials, structure and building fabric in project-based design exercises, primarily involving single cell buildings.

Typical availability

Spring semester, City campus

11207 Architectural Design and Construction

Undergraduate

This subject provides students with a holistic view of the design and construction process through the development of a hands-on construction activity. Students from different discipline areas work together in multidisciplinary teams to manage the processes of designing, planning, engineering, fabricating and documenting a construction project.

Typical availability

Autumn semester, City campus
11208 Architectural Design: Architectural Communications 2
6cp
Undergraduate

The ability to develop and give an account of any architectural proposition relies on the thoughtful and strategic deployment of a range of representational types. This subject aims to develop the necessary knowledge and skills required in the production of these forms of representation together with the capacity to align their usage to appropriate communicative applications. Consequently, the subject introduces students to a range of techniques aimed at developing an understanding of representation as a formally generative, illustrative, observational and analytical tool. The subject also focuses on compositional issues concerned with the assemblage of images and, where appropriate, text. Students explore the use of these representation modes, in both two- and three-dimensional forms, through a range of manual and digital tools. This subject is a corequisite to the first-year, second semester design subject and together they are to be understood as integrated subjects. As such, content and assessment tasks are aligned, though not necessarily identical to design.

Typical availability
Spring semester, City campus

11209 Architectural Design: Making
6cp
Undergraduate

This subject introduces students to the design potentials of diverse structural, material and organisational approaches in architecture. A constraint-based process is used to inform a series of both two-dimensional and three-dimensional exercises. Relationships between structure, materiality and performance in existing buildings are analysed and explored for new design potentials and formal outcomes. Fabrication techniques and representational processes are investigated at varying scales with an emphasis on making a wide range of material practices.

Typical availability
Spring semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/17/VumYfFSu_-I
- Academic video: www.youtube.com/user/utschannel#p/u/28/VMBhqE0vimK

11211 Architectural Design: Forming
6cp
Undergraduate

This subject introduces students to diverse sources of architectural concepts and forms, including those found in the history of architecture and from outside of architecture, for example, in nature, mathematics, the human body, art practice and everyday objects. These sources are considered in terms of their formal appearance, performance in different conditions, cultural and historical associations, and potential for inventive development and transformation. Techniques for making and evaluating compositions are introduced along with conceptual terms used in architecture such as abstraction, figure, hierarchy, order, etc. Processes for the development of initial formal proposals for site and program-specific conditions are explored through orthographic drawing, three-dimensional modelling using appropriate software, sketches and scale models.

Typical availability
Autumn semester, City campus

11212 Architectural History and Theory: Orientations
6cp
Undergraduate

The subject introduces key themes in history and theory framed in terms of architectural examples from antiquity until the beginning of the nineteenth century. Themes may include ideas of architectural origins; theories and applications of geometry, composition, proportion and order; relations between antiquity and subsequent architectural developments; the development and use of different forms of representation, including perspective; the architect as historical figure; the role and influence of architectural treatises; impacts of developments in scientific thinking; ideas that underpin the writing of architectural history; the historical development of architectural theory; and cultural encounters between East and West and their impact on architecture.

Typical availability
Autumn semester, City campus

11214 Architectural Design: Architectural Communications
6cp
Undergraduate

Students of architecture must acquire a set of skills that enable clear communication of architectural ideas. This subject has been designed to equip students with a range of basic tools that enable dissemination of their architectural thinking and propositions. It comprises four components:
- technical illustration — an introduction to a variety of architectural projections and rendering techniques
- freehand illustrations — students of architecture require a level of competency and ease in the production of quick, freehand sketches. Different techniques are covered in this component, delivered through a series of freehand drawing classes
- architectural computing — the use of the computer is studied in this component as a tool to aid communication of design thinking
- architectural model-making — introduces students to elementary physical model-making as a tool to aid design thinking and communication. Various techniques from the quick card study model to the professional presentation model are reviewed.

Typical availability
Autumn semester, City campus

11216 Architectural History and theory: Modernity and Modernism
6cp
Undergraduate

The subject considers the relationship between the diverse practices of modernism in art and architecture, and theories of modernity as they bear upon and are challenged by these practices. The subject develops students’ ability to read and understand key case studies from the nineteenth into the first half of the twentieth century. Themes considered may include industrialisation, impacts of technology, the modern concept of space, debates about style and ornament, ideas and practices of avant-gardism, utopianism and revolution, new social formations, abstraction, hygiene, and geo-politics, particularly the reception of modernism in Europe, North America and Australia.

Typical availability
Autumn semester, City campus

11221 Architectural Design: Strategy
6cp
Requisite(s): 11211 Architectural Design: Forming AND 11215 Architectural Design: Making
Undergraduate

The strategic organisation of spaces to satisfy experiential ambitions, proposed use and urban context is the focus of this subject. Issues of horizontal and vertical circulation and movement, sequence, hierarchy and proximity are developed through section and plan drawings and models. Aspects of privacy, enclosure, permeability, sequence and transparency in regard to individual spaces within the organisation of spaces are considered. Techniques for conveying and designing the experience of occupying and moving through space, as well as the temporal uses of different spaces, are developed. These may include diagrams, animated fly-throughs and sketches. Design is explored as an iterative process through these techniques.

Typical availability
Autumn semester, City campus
11222 Architectural History and Theory: Critique

6cp
Undergraduate

The subject focuses on the rise of architectural theory after 1965 as a particular discipline with its own debates and forums of exchange. The subject builds on the previous history and theory subject by considering how modernism has become the subject of critique. It also considers architecture in relation to wider strands of thinking that critique the practices and products of culture. Themes addressed may include criticism and critical thinking, disciplinarity, the nature and role of theory, the concept of position, postmodernity, deconstruction and literary theory, theories of the image and affect, gender and power relations, race, subjectivity, architecture and fashion, architecture and film, architecture and art, experimental architecture, architecture as critical object, ideology, politics and power, discourse, and framing.

Typical availability
Spring semester, City campus

11225 Thermal Design and Environmental Control

6cp
Undergraduate

The subject aims to further develop students' understanding of thermal comfort, building thermodynamics and natural ventilation, and provides an introduction to the principles of daylighting and sound control. The subject encompasses the basic principles, design strategies, as well as qualitative and quantitative evaluative methods and analytical techniques for environmental control. It seeks to equip students with the ability to apply their learning in the technical and design aspects of thermal and environmental control in the design of domestic scale architecture.

Typical availability
Spring semester, City campus

11227 Architectural Design: Performance

6cp
Undergraduate

This subject introduces students to the concepts of building and architectural performance. Recognising that architectural projects are mediators of environmental variables, as well as contributors to environmental change, it asks students to examine the consequences of this in design. Students consider both qualitative and quantitative methods for assessing the environmental and social performance of architecture. Along with the techniques for using energy and material resources efficiently, the subject also considers other aspects of performance that might be addressed through concepts of interactivity, responsiveness and experiential design.

Typical availability
Spring semester, City campus

11231 Architectural Design: Field

6cp
Undergraduate

This subject considers architecture as an intervention within the broader field of an urban or other landscape. Beyond the design of an object, the subject is concerned with relationships between buildings, and between buildings and the infrastructure and landscapes in which they are situated. At the same time, the subject asks students to account for the many competing interests in the design of any public or commercial building or space and to understand the field of negotiation in which the architect makes architectural proposals. Questions of architectural form making are raised in relationship to the interplay of representation and identity, the programmatic and structural organisation of buildings and their location within the urban field.

Typical availability
Autumn semester, City campus

11232 Lighting, Acoustics and Advanced Environmental Control

6cp
Requisite(s): [11225 Thermal Design and Environmental Control]
Undergraduate

The subject aims to deepen students' understanding of the principles of lighting acoustics and environmental control in the context of medium and complex scale architecture and seeks to equip students with the ability to design and modify the building fabric through analysis and evaluation to enhance the environmental performance of designed spaces. It encompasses advanced daylighting systems and the integration of electrical lighting, strategies for noise management, room acoustics, hybrid ventilation and mixed mode systems as well as an introduction to alternate and sustainable building energy systems. Qualitative and quantitative evaluative and analytical processes that inform such design decisions are explored in this subject.

Typical availability
Autumn semester, City campus

11233 Advanced Architectural Construction

6cp
Undergraduate

This subject takes the form of a series of case studies demonstrating how the integration of construction systems as part of the design development has been achieved in a series of outstanding buildings of various scales. Methodologies and analytical tools to enable the performance criteria and criteria of the various elements and components making up the buildings' fabric are developed and assessed. Central issues involved in this assessment of fabric and environmental performance are life cycle and cost benefit analysis, which include issues of embedded energy, the fabric's overall impact on the building's operating energy budget and any marginal costs that may be associated with achieving an energy efficient built environment.

Typical availability
Spring semester, City campus

11234 Architectural Design: Integration

6cp
Undergraduate

This subject develops skills in the integration of diverse aspects of building towards more resolved and coherent design proposals. The integration of, for example, construction and material choices, building performance, building services, planning, formal expression and urban context area developed. Techniques for development clear design strategies in response to complex briefs and ambitions are explored, including the use of diagrams, overlays and the presentation of alternatives. Through successive design iterations students learn the ability to control, test and manipulate heterogeneous and competing design parameters. The relevancy and clarity of the process of design development is considered as an integral part of the final outcome.

Typical availability
Spring semester, City campus

11235 Architecture and Urban Projects

6cp
Undergraduate

This subject is an introduction to the architecture of urban spaces, key civic buildings, the influence of topography, environmental and landscape themes, and the role of particular housing types in forming the city. It includes a survey of city plans across time and across cultures as well as an introduction to histories, theories and critiques of urban design, urban projects and urban architecture.

Typical availability
Spring semester, City campus
11247 Architectural History and Theory: Current Events and Debates
6cp
Undergraduate
The subject examines contemporary architecture in relation to events and debates through which architecture is presented to itself and the public. The subject draws on the historical and theoretical knowledge presented in previous subjects in order to understand and actively debate aspects of the discipline and practice that are in flux. The subject offers choices of topics where lecturers’ own interests and research expertise form the basis of seminar-style teaching. As an example, a choice of topics may include architecture after 9/11, the digital and the post-digital, architects in recent feature documentaries and the rise of a sustainability agenda. Of necessity, topics change, being formulated according to current developments in architecture, and current research projects.

Typical availability
Spring semester, City campus

11248 Architectural History and Theory: Urbanism and the City
6cp
Undergraduate
The subject considers the development of the city in the context of modernity and modernisation. The subject builds on knowledge gained from previous history and theory subjects, and extends it with an understanding of the range of forces and processes that have shaped cities and their urbanisms. Particular cities are examined in relation to specific themes, which may include industrialisation and urbanisation, colonisation, production, consumption, labour and economic forces, governance, demographic mapping and change, political processes and urban development, theories of urban experience, institutions of public and private life, post- and ex-urbanism, the suburbs, and the city as the site of research and speculation for architecture.

Typical availability
Autumn semester, City campus

11272 Designing with Landscape Elements
6cp
Undergraduate
This elective explores how various landscape elements can contribute to the modification of urban climate. Specifically there is an examination of how these elements may contribute to the lessening of the urban heat island (UHI) effect that is generated by the built environment and its supporting infrastructure. This subject uses case studies to illustrate how, by using various combinations of vegetation and surfaces, these can be used to modify extremes of temperature, wind velocities and contribute to lowering the diurnal range of temperatures while at the same time showing in what ways this approach may be used to lessen the UHI effect and improve the general amenity of urban environments.

Typical availability
Spring semester, City campus

11285 Advanced Modelmaking
6cp
Undergraduate
This subject extends students’ basic modelling construction techniques and introduces them to different modelling techniques and media. It examines various ways of using models, across a range of scales, to highlight the model’s conceptual, generative and illustrational value as evidenced through the various stages of the design process. Students explore a wide range of additive, reductive and casting modelling techniques, using diverse materials and, where appropriate, extend their existing knowledge of software to incorporate advanced digital fabrication technologies, including milling, rapid prototyping and laser cutting. The definition of model in this subject is broad and the curriculum may include the notion of the model in both its physical and digital forms, however, the emphasis is on the production of physical artefacts. As a consequence, students are expected to develop a material sensibility that demonstrates an understanding of the tactile, visual and structural potentials of any selected materials.

Typical availability
Spring semester, City campus

11274 Architectural Experience A
6cp
Undergraduate
This subject covers basic architectural experience including office skills, planning work, managing correspondence including document transmittals, faxes, phones, emails, information organisation including filing, and performing simple domestic documentation.

Typical availability
Autumn semester, City campus

11275 Architectural Experience B
6cp
Undergraduate
In this subject students individually study basic building construction overall, including visits to building sites, measurements, drafting (CAD or Manual) and perform complex domestic scale and nature documentation.

Typical availability
Autumn semester, City campus

11291 Freehand Illustration
6cp
Undergraduate
This subject focuses on practical experience in freehand drawings and presentation. The classes focus on life drawing, experimentation with alternative rendering techniques and, finally, presentation layouts for the design and the rendering of these drawings. The intent is to develop the relationship between what we see and how we graphically present these images.

Typical availability
Spring semester, City campus

11287 Islamic Architecture 630-1700
6cp
Undergraduate
What is Islamic architecture? This elective seeks to answer that question as it visits buildings designed for and by Muslims in Jerusalem, Damascus, Baghdad, Samarra, Cairo, Cordoba, Granada, Istanbul and Isfahan.

Typical availability
Autumn semester, City campus

11285 Advanced Modelmaking
6cp
Undergraduate
This subject extends students’ basic modelling construction techniques and introduces them to different modelling techniques and media. It examines various ways of using models, across a range of scales, to highlight the model’s conceptual, generative and illustrational value as evidenced through the various stages of the design process. Students explore a wide range of additive, reductive and casting modelling techniques, using diverse materials and, where appropriate, extend their existing knowledge of software to incorporate advanced digital fabrication technologies, including milling, rapid prototyping and laser cutting. The definition of model in this subject is broad and the curriculum may include the notion of the model in both its physical and digital forms, however, the emphasis is on the production of physical artefacts. As a consequence, students are expected to develop a material sensibility that demonstrates an understanding of the tactile, visual and structural potentials of any selected materials.

Typical availability
Spring semester, City campus

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6cp
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Typical availability
Autumn semester, City campus

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6cp
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Spring semester, City campus

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Typical availability
Spring semester, City campus

11285 Advanced Modelmaking
6cp
Undergraduate
This subject extends students’ basic modelling construction techniques and introduces them to different modelling techniques and media. It examines various ways of using models, across a range of scales, to highlight the model’s conceptual, generative and illustrational value as evidenced through the various stages of the design process. Students explore a wide range of additive, reductive and casting modelling techniques, using diverse materials and, where appropriate, extend their existing knowledge of software to incorporate advanced digital fabrication technologies, including milling, rapid prototyping and laser cutting. The definition of model in this subject is broad and the curriculum may include the notion of the model in both its physical and digital forms, however, the emphasis is on the production of physical artefacts. As a consequence, students are expected to develop a material sensibility that demonstrates an understanding of the tactile, visual and structural potentials of any selected materials.
Typical availability
Autumn semester, City campus
Spring semester, City campus

11297 Architectural Experience D
6cp
Undergraduate
This subject is concerned with complex architectural experience where students organise, manage and document a specific unique built project involving designed responses to client requirements of a commercial scale and nature.

Typical availability
Autumn semester, City campus
Spring semester, City campus

11304 House and Housing
6cp
This subject is based around the analysis of the relationship between housing typology and the changing of the city, including the interrelationship between geography, layout, the landscape of public works, subdivision and housing types. It includes a survey of the changes to housing typologies and the city plan across time, analysis of urban and suburban housing types, a review and critique of histories and theories of urban design, urban history and the architecture of the city. It also comprises an introduction to the work of key architects and their contribution to the architecture of the housing and the city.

11307 Architecture Special Project
6cp
This subject requires students to demonstrate self-directed learning, in the pursuit of a project of their own choice, or one offered by the program. Advice from an academic supervisor assists students to select, refine and complete their particular project. The subject is only available to students who are capable of undertaking independent study, and students intending to take the subject must gain approval and agreement from an academic supervisor, and the program director, prior to enrolment. The number, nature and timing of the assessment items is normally negotiated between the supervisor and the student, and administered via learning contract. This flexible learning approach allows for students to examine an area of special interest in detail, and to independently explore beyond a basic level of understanding of the selected subject matter. Projects may respond to special conditions within the program, the faculty, the community, or contemporary architectural practice. The range of projects is limited only by the capacity of the program and the academic supervisor to provide appropriate support to the student and to facilitate optimum study conditions.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
Winter session, City campus

11308 Reading and Writing Architectural Criticism
6cp
This subject examines the theory and practice of architectural criticism, in Australia and internationally. It approaches this broad field in three ways. First, it examines fundamental philosophical questions of what criticism actually is, its role and function (in architecture and other disciplines), and the relationship between criticism and judgement, discernment, and discrimination, amongst other things. Second, the subject approaches architectural criticism as a rhetorical or writerly practice—through analyses of specific texts and the work of exemplary architectural critics, it identifies the different modes of writing employed in different forums and for different audiences, and the different subject positions taken by critics on various issues. In this way the subject also seeks to examine criticism critically—to read between the lines of public criticism and probe the unspoken ideological positions and complicity held by critics, and also by the forums in which their work is disseminated. It notes the ways in which criticism is affected by its mode and method of presentation—in terms of its voice, vocabulary projected audience, apparent level of objectivity and so on. Finally, the subject approaches architectural criticism in terms of its specific relationship with architectural practice, and questions the role that criticism plays in the profession, the academy, and in architectural culture more generally. In this way it opens a debate on whether architectural criticism does, and indeed whether it should, contribute to better buildings. The subject concentrates particularly on criticism published in architectural journals, but also touches upon the popular press, as well as film and television.

Typical availability
Spring semester, City campus

11309 Architecture, Cinema and Representation
6cp
This subject examines the way in which architecture and ‘the architect’ have been represented, and to a certain extent constructed, through the cinema. It uses examples from various periods of film history to examine some ways in which architects, architecture as a profession, and architecture (as building) itself, have been perceived, and also stereotyped. Making a critical reading of such cultural ‘texts’ can reveal much about what society wants to believe about architecture, whilst also demonstrating the (often vast) distance between this romanticised image of the architect, and what architects actually are and what they actually do. Similarly, the ways in which architecture and the city have been represented through film can be critically examined for what they conceal, as much as for what they reveal, about real and ideal conditions in the built environment.

11310 Critical Theory
6cp
This subject looks at the history of critical theory. Starting with the writings of Walter Benjamin, it goes on to examine central texts and topics presented and analysed by Bloch, Simmel and others. The final part of the course is an engagement with Adorno’s aesthetic theory. Central topics in critical theory are analysed in detail, though emphasis is given to those elements directly concerned with design, art, architecture and aesthetics.

11311 Drawing to Diagrams: Topics in Architectural Theory
6cp
This subject presents an overview of central issues within architectural theory. The basic presupposition guiding the subject is that architecture is inextricably bound up with questions of representation. In part, the history of architecture is the history of its ‘self-representation’. As such, emphasis is given to the way elements of architecture – line, diagrams, walls, corners, etc. – are articulated within the history of architecture’s continual attempt to conceptualise its own practice. Instead of understanding theory as the application of a discourse external to architecture, theory is understood in terms of the issues that arise from the practice of design.

11312 Modern Western Aesthetics
6cp
Modern Western Aesthetics introduces students to the principal aesthetic theories of the last hundred years, with the ultimate expectation that students are able to appreciate not just the principle philosophical bases and cultural ramifications, but also are capable of discriminating between competing aesthetic theories. Special attention is given to the theoretical applications and implications to architecture and design.

11313 Exploring Space 1: from Simple Beginnings to Baudrillard
6cp
Starting from the simple beginnings offered in a number of ‘standard’ architectural texts, and moving through a selection of different and more challenging readings, this subject explores the subject of space in relation to architecture, examining the variety of meanings and implications that attend the term ‘space’, investigating how space is constructed, both intellectually and physically, and explicating the effects of space over a range of situations. A number of different – and often contradictory – perspectives on architectural space are examined; a number of non-architectural investigations of space are considered; and a number of specific issues pertaining to space – including the spatial organisation of society and the idea of ‘social space’, the commodification of space, post-modern constructs of space, and questions of spatial ‘reality’ – are explored. The subject concludes with a brief analysis of Baudrillard’s ideas on simulacra, and with some ‘last words’ on space and architecture.
In parallel with the above, and with space as its vehicle, the subject also explores relations between architecture and its theoretical bases, and aims at the continued development in students of skills in reasoning, argument and critical thinking, and the exploration of the ways in which these skills may be applied to the analysis of architecture and design.

11314 Architectural Communications: Animation Software
6cp; intensive; elective
Postgraduate
The use of computer animation software is now firmly entrenched within contemporary digital design practice more for its formally generative, rather than illustrative, potential. This potential is linked to the software’s unique capacity to parameterize geometric entities derived from b-splines, and so to test form as a product of variable vectors (magnitude and direction) acting over time.

The use of animation software differs from modelling software in two significant ways. First, it acts procedurally as the primary site in which to generate form. Second, its use of contemporary geometries provides a strong analogous framework in which to formally embed the effects of variable data sets. Consequently, the designer is able to explore form making within a paradigm of variation and change rather than one based on the appropriation of pure and static platonic form. The subject aims to expose students to the unique design methodologies and techniques that result from this digital design paradigm. Specifically, students develop knowledge and skill in the exploitation of this software type to conceive, manipulate and image complex form.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
July session, City campus

11315 Architectural Communications: Modelling Software
6cp
Elective
Postgraduate
Computer modelling software is increasingly influencing the way design professionals think about generating form. The functionality of such software instigates a very specific type of design process that focuses on the manipulation of imported form, be they primitive geometries, appropriated real objects, two-dimensional images or diagrams.

This subject enables students to explore the unique architectural design processes opened by these types of softwares. The subject aims to both foster a competency in the usage of modelling softwares and cultivate an understanding of how to exploit this functionality to conceive and image formal outcomes.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
July session, City campus

11316 Architectural Communications: Advanced Modelling Software
6cp
Elective
Postgraduate
The computational capacity of digital technologies has led architects to explore increasingly complex forms and systems. This, in turn, has led to the development of associative parametric design software, which enables designers to concurrently generate and test complex form and relationships while resolving constructional and structural issues to an incredible degree of dimensional accuracy. Building on a strong foundational base in the use of basic modelling software, this subject aims to introduce students to associative parametric design software, both as an aid to an iterative design process, a method of design exploration and a tool to resolve complex form through the testing and refinement of non-standard architectural systems.

Typical availability
Autumn semester, City campus
Spring semester, City campus
July session, City campus

11361 Special Project (Theory)
6cp
Students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive studio mode. The areas for study within the special projects are theory, technology, communications, design and a field study with an overseas study visit. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision. It is the responsibility of the head of school to appoint the academic supervisor.

Typical availability
Summer session, City campus

11362 Special Project (Technology)
6cp
Students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive studio mode. The areas for study within the special projects are theory, technology, communications, design and a field study with an overseas study visit. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision. It is the responsibility of the head of school to appoint the academic supervisor.

Typical availability
Summer session, City campus

11363 Special Project (Communications)
6cp
Students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive studio mode. The areas for study within the special projects are theory, technology, communications, design and a field study with an overseas study visit. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision. It is the responsibility of the head of school to appoint the academic supervisor.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
Winter session, City campus
11364 Special Project (Design)
6cp
Students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive studio mode. The areas for study within the special projects are theory, technology, communications, design and a field study with an overseas study visit. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision. It is the responsibility of the head of school to appoint the academic supervisor.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
Winter session, City campus

11365 Special Project (Offshore)
6cp
Students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive studio mode. The areas for study within the special projects are theory, technology, communications, design and a field study with an overseas study visit. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision. It is the responsibility of the head of school to appoint the academic supervisor.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Winter session, City campus

11391 Research Methods, Information Retrieval and Project Proposal
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

11392 Honours Thesis: Preparatory
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

11393 Honours Thesis
24cp
Requisite(s): 11391 Research Methods, Information Retrieval and Project Proposal AND 11392 Honours Thesis: Preparatory
Further information on this subject is available from UTS: Design, Architecture and Building.

11400 Digital Theory
6cp
Postgraduate
This subject consists of an intensive study of the relationship between architectural theory and the realm of digital creation. It involves a group-based intensive study within a semester and examines specific topics within the theory of digital design. The subject investigates issues including the relationship between the history of drawing and the development of computer-based design schemes, and the question of the relationship between the diagram as a computer generated series of lines and its subsequent connection to forms of material realisation. It also covers a theoretical account of central elements of the design course, namely the relationship between geometry and materials; the relationship between the digital and analogue models; and the conceptualisation of objects and artefacts as a surface condition. The digital has necessitated a rethinking of the terminology central to architecture, e.g. line, plane, surface.

Typical availability
Spring semester, City campus

11401 Digital Master Class A
6cp
Postgraduate
The focus of this subject is an intensive design workshop presented and curated by an invited guest architect. It offers students an opportunity to work with a highly regarded international or Australian practitioner, while examining specific digital design topics. In this subject, students investigate issues such as the relationship between geometry and materials, the relationship between the digital and analogue models, and the conceptualisation of objects and artefacts as a surface condition. Students are given the opportunity to review digital technologies and apply these to the analysis of the guest architect’s work.

Typical availability
Spring semester, City campus

11402 Digital Architecture Project A
12cp
Postgraduate
This is a studio-based design subject that aims to critically explore the appropriation of digital techniques and technologies towards the creation of new architectures through design research and exploration. The subject establishes and reinforces the required core skills, and level of professionalism of the digital architecture course for new students, and serves to hone and extend skills for continuing students. Experimentation with computational processes and techniques for software and hardware that afford a new relationship to the built environment is an expectation, as is a level of design of the highest order. Students must demonstrate a high level of proficiency in design and computational techniques in order to pass this subject.

Typical availability
Spring semester, City campus

11403 Digital Master Class B
6cp
Postgraduate
The focus of this subject is an intensive design workshop presented and curated by an invited guest architect. It offers students an opportunity to work with a highly regarded international or Australian practitioner, while examining specific digital design topics. In this subject, students investigate issues such as the relationship between geometry and materials, the relationship between the digital and analogue models, and the conceptualisation of objects and artefacts as a surface condition. Students are given the opportunity to review digital technologies and apply these to the analysis of the guest architect’s work.

Typical availability
Spring semester, City campus

11404 Digital Architecture Project B
12cp
Postgraduate
This subject aims to critically explore the appropriation of digital techniques and technologies towards the creation of new architectures through design research and exploration. The subject establishes and reinforces the required core skills, and level of professionalism of the digital architecture course for new students, and serves to hone and extend skills for continuing students. Experimentation with computational processes and techniques for software and hardware that afford a new relationship to the built environment is an expectation, as is a level of design of the highest order. Students must demonstrate a high level of proficiency in design and computational techniques in order to pass this subject.
bodies is explored through international and local case studies in urban theory; regional and urban planning issues; planning policies and procedures; infrastructural planning; governance bodies and regulations – local councils, planning departments; managing community conflict; and the micro-economics of the property industry.

Typical availability
Autumn semester, City campus

11512 Architecture Competition Project
6cp; availability: approval from course director required to undertake the subject
Elective
Postgraduate
This subject gives students the opportunity to undertake a current external architectural competition chosen by the subject coordinator for its significance and suitability for design experimentation. The requirements of the competition brief, including all parameters of registration, presentation, content and submission, are to be satisfied while adhering to a collaborative working method that approximates the professional design studio. The working method for architectural competitions used in the subject includes the formation of a team, the identification of strengths and tasks within the team, the formulation of strategic design directions and the generation of ideas and a process for their selection for further development towards a coherent submission. The subject is only available to students who demonstrate the capacity to work at a high level of design performance in a collaborative setting.

Typical availability
Spring semester, City campus

717

UTS: Handbook 2013
Subjects

In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.

717
the relationship between models or organisation and architectural space, material systems and the engagement with technologies of production, formulation and issues of form generally as a result of digital processes and conceptualisation, and the relationship between developments in the sciences and their import to architecture.

Students read both weekly readings and a series of books over the course of the semester, attend lectures and discuss the readings in seminar mode. Assessment is based on a short written review of a section of the weekly reading material, a short written review of a book and a critical essay.

Typical availability
Spring semester, City campus

**11522 Master Class Urban Design**
6cp
Postgraduate

This subject offers students an opportunity to work alongside a guest instructor of international standing, who has demonstrated both a high degree of recognised design excellence and a strongly articulated position in research and practice within the field. The subject focuses on an intensive design workshop presented and curated by the invited guest architect, urban designer or theorist. It offers students an opportunity to develop particular skills relevant to the research interests of the guest instructor(s). The subject involves both group based and individual study and is held in seminar and intensive mode examining topics and design responses within the wider area of urban design. Students explore a particular position on an aspect of urban design and develop the tools and understanding to apply a range of design techniques used by the guest instructor to creatively execute a focused design project or study. This subject investigates focused issues and processes of urban design directed towards a short study, prototype or design proposal. The subject also includes software training, research background, reading seminars and/or other tutorial based sessions as necessary, to prepare students for the intensive block teaching weeks.

Typical availability
Spring semester, City campus

**11523 Master Class Design Technologies 1**
6cp
Postgraduate

This subject offers students an opportunity to work alongside a guest instructor of international standing, who has demonstrated both a high degree of recognised design excellence and a strongly articulated position in research and practice within the field. The subject focuses on an intensive design workshop presented and curated by an invited guest architect, urban designer or theorist. The subject offers students an opportunity to develop particular skills relevant to the research interests of the guest instructor(s). The subject involves both group based and individual study and is held in seminar and intensive mode examining topics and design responses within the wider area of design technology. Students explore a particular position on an aspect of design technology, and develop the tools and understanding to apply a range of design techniques used by the guest instructor to creatively execute a focused design project or study. This subject investigates focused issues and processes of design proposals that accurately and persuasively convey the most ideas and modes of practice in architectural design, and the production, form generation and issues of form generally as a result of digital processes and conceptualisation, and the relationship between developments in the sciences and their import to architecture.

Students read both weekly readings and a series of books over the course of the semester, attend lectures and discuss the readings in seminar mode. Assessment is based on a short written review of a section of the weekly reading material, a short written review of a book and a critical essay.

Typical availability
Spring semester, City campus

**11524 Master Class Design Technologies 2**
6cp
Postgraduate

This subject offers students an opportunity to work alongside a guest instructor of international standing, who has demonstrated both a high degree of recognised design excellence and a strongly articulated position in research and practice within the field. The subject focuses on an intensive design workshop presented and curated by an invited guest architect, urban designer or theorist. It offers students an opportunity to develop particular skills relevant to the research interests of the guest instructor(s).

The subject involves both group based and individual study and is held in seminar and intensive mode examining topics and design responses within the wider area of design technology. Students explore a particular position on an aspect of design technology, and develop the tools and understanding to apply a range of design techniques used by the guest instructor to creatively execute a focused design project or study. This subject investigates focused issues and processes of urban design directed towards a short study, prototype or design proposal. The subject also includes software training, research background, reading seminars and/or other tutorial based sessions as necessary, to prepare students for the intensive block teaching weeks.

Typical availability
Autumn semester, City campus

**11525 Demonstration Project**
12cp
Postgraduate

This subject concludes the Master of Advanced Architecture degree and is intended as an opportunity to critically respond to the challenges from the course through a negotiated research project. The project is formulated in consultation with external partners and is carried out by teams of students across the architecture degrees. The aim of the subject is to develop and profess a theoretical position, and to demonstrate its consequences through a concrete situation of public significance. Students demonstrate their capacity over the range of skills introduced throughout the degree, and work together in cross-disciplinary teams to defend their design research outcomes in a significant public forum for comment and review.

The research project must consolidate and extend learning in the area of urban design/design technologies and the themes considered throughout the degree. Students are responsible for identifying disciplinary specific research techniques, managing the research process and for publicly demonstrating the outcomes of their research project. Students table their research project brief at the end of the Spring semester, formulate a plan for project management and regular meetings with their advisers over the Summer session, leading toward presentation in the week prior to the commencement of the following Autumn semester.

Students are assessed on the creativity and legitimacy of their response to the negotiated project situation and their capacity to demonstrate the application of their learning to the practice context.

Typical availability
Summer session, City campus

**11551 Masters Architectural Design Studio 1**
12cp
Postgraduate

This subject aims to further architectural design skills through the integration of a specific research agenda that may be tested through project-based speculations. The research agenda comprises of a particular topic selected from a range of discipline areas including, but not limited to, computation and digital design in architecture and manufacturing, material and construction in architecture, environmental and performance based design in architecture, urban design, and activism and the role of the architect and design within critical cultural discourse. The subject also enhances a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. The subject requires the testing of ideas and modes of practice in architectural design, and the production of design proposals that accurately and persuasively convey the most relevant ideas and practices. Masters Studio 1 is the first of four studio subjects required to complete the Master of Architecture degree.

Typical availability
Autumn semester, City campus
11552 Masters Architectural Design Studio 2
12cp
Postgraduate
This subject aims to further architectural design skills through the integration of a specific research agenda that may be tested through project-based speculations. The research agenda comprises a particular topic selected from a range of discipline areas including, but not limited to, computation and digital design in architecture and manufacturing, material and construction in architecture, environmental and performance based design in architecture, urban design, and activism and the role of the architect and design within critical cultural discourse. The subject also enhances a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. The subject requires the testing of ideas and modes of practice in architectural design, and the production of design proposals that accurately and persuasively convey the most relevant ideas and practices. This subject is the second of four studio subjects required to complete the Master of Architecture degree.

Typical availability
Autumn semester, City campus
Spring semester, City campus

11553 Masters Architectural Design Studio 3
12cp
Postgraduate
This subject aims to further architectural design skills through the integration of a specific research agenda that may be tested through project-based speculations. The research agenda comprises a particular topic selected from a range of discipline areas including, but not limited to, computation and digital design in architecture and manufacturing, material and construction in architecture, environmental and performance based design in architecture, urban design, and activism and the role of the architect and design within critical cultural discourse. The subject also enhances a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. The subject requires the testing of ideas and modes of practice in architectural design, and the production of design proposals that accurately and persuasively convey the most relevant ideas and practices. This subject is the third of four studio subjects required to complete the Master of Architecture degree.

Typical availability
Autumn semester, City campus
Spring semester, City campus

11554 Masters Architectural Design Studio 4
12cp
Postgraduate
This subject aims to further architectural design skills through the integration of a specific research agenda that may be tested through project-based speculations. The research agenda comprises a particular topic selected from a range of discipline areas including, but not limited to, computation and digital design in architecture and manufacturing, material and construction in architecture, environmental and performance based design in architecture, urban design, and activism and the role of the architect and design within critical cultural discourse. The subject also enhances a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. The subject requires the testing of ideas and modes of practice in architectural design, and the production of design proposals that accurately and persuasively convey the most relevant ideas and practices. This subject is the fourth of four studio subjects required to complete the Master of Architecture degree.

Typical availability
Autumn semester, City campus
Spring semester, City campus

11555 Masters Architectural Design Thesis
12cp
Postgraduate
This subject aims to further architectural design skills through the integration of a specific research agenda that may be tested through project-based speculations. The research agenda comprises a particular topic selected from a range of discipline areas including, but not limited to, computation and digital design in architecture and manufacturing, material and construction in architecture, environmental and performance based design in architecture, urban design, and activism and the role of the architect and design within critical cultural discourse. The subject also enhances a critical understanding of architecture as both a discipline with an existing body of knowledge and a set of practices that continuously challenge and add to that body of knowledge. The subject requires the testing of ideas and modes of practice in architectural design, and the production of design proposals that accurately and persuasively convey the most relevant ideas and practices. This subject is the fourth of four studio subjects required to complete the Master of Architecture degree.

Typical availability
Autumn semester, City campus
Spring semester, City campus

12511 Building Technology and Regulation
6cp
Postgraduate
In this subject students undertake a critical examination of building structure, cladding and service systems for a range of building types. The subject covers the following topics: maintenance, life cycle costing and energy efficiency; purpose and application of building regulations; and interpretation of building documentation in the context of property development and management processes.

Typical availability
Spring semester, City campus

12515 Strategic Asset Management
6cp
Postgraduate
A strategic and responsible approach to management of property assets requires the ability to understand and respond to economic and social influences which affect the performance of property through a life cycle which begins with raw land and includes development, management and redevelopment. Marketing and effective property management techniques are examined in this subject as responses to changing economic and social forces in the strategic management of property assets.

Typical availability
Autumn semester, City campus
Spring semester, City campus

12518 Property Transactions
6cp
Postgraduate
This subject looks at the following topics: the nature of the ownership of personal property including intellectual property; the nature of ownership of real property including the related concepts of title, leases, mortgages, conveyancing transactions, and options to purchase; an overview of the law of contract with emphasis on construction industry contracts and joint venture agreements; the law of negligence including liability for negligently given advice or certification, the operation of the statute of limitations; and the manner in which local government building, planning and subdivision approvals are given including the mechanisms for appeal to the Land and Environment Court.

Typical availability
Autumn semester, City campus
Spring semester, City campus
12525 Property Analysis 1
6cp
Postgraduate
In this subject students study general accounting principles; capital budgeting techniques; discounted cash-flow analysis; risk analysis techniques; interest rate theory and discount rates; traditional and contemporary principles and methods of valuation, advanced capitalisation and other valuation methods; valuation of different classes of property; and sources of finance. A basic knowledge of a spreadsheets program such as Microsoft Excel is assumed. Students need to bring a financial calculator to class.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus

12535 Valuation Application
6cp
Requisites: 15142 Introduction to Property and Planning
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is designed to foster a deep understanding of property valuation in the context of development site and investment property analysis, specialised property appraisals, property finance assessments and financial reporting outcomes. Students develop a strong theoretical and practical understanding of the established industry-based analysis from within which key decisions relating to property investment, development, financing structures and financial reporting outcomes are made.

Typical availability
Spring semester, City campus

13905 Thesis (Architecture)
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

Typical availability
Autumn semester, City campus
Spring semester, City campus

13907 PhD Thesis: Architecture
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

14903 Thesis (Building)
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15111 Planning Project Analysis
6cp
Postgraduate
This subject questions the rationale for urban planning and reviewing the need for, and arguments against, regulation. Students are introduced to the form of urban areas and theories of city structure and location as a factor in urban development. Basic frameworks, concepts and tools for analysing and understanding urban problems are investigated, including microeconomics, macroeconomics and urban sociology concepts, in order to develop an elementary comprehension of urban issues. The subject also develops students' abilities to effectively investigate, analyse and present planning data (written, graphic and oral). Exercises in exploring research methods and data sources for urban planning and management practice include land use and density mapping, data-gathering survey methods, geographic information systems, and skills in using journal and other library resources.

Typical availability
Autumn semester, City campus

15112 Urban Analysis
6cp
Postgraduate
The planning project is centred on a site which is sufficiently large and complex to raise questions of ownership, infrastructure, urban transport, environmental impact, social impact, heritage, regional implications, land use, built form, plan preparation, and development control. The four subjects which make up the project are intended to give students an experiential education in the process of planning, enabling concepts and information from knowledge areas to be integrated at each stage. Students work in groups of between four and eight, emulating planning practice where knowledge and ideas are put into practice, where experience is gained in the techniques and methods of planning, and where the skills of spatial analysis, problem-solving, design, organisation and communication are enhanced.

This first planning project subject requires the analysis of the chosen site, through the documentation of its physical characteristics and its social and environmental context. Students are required to perceive, identify, record, analyse and manipulate patterns and relationships. In addition, they provide a preliminary definition of planning problems, design a project brief and prepare consultancy contracts.

Typical availability
Autumn semester, City campus

15131 Planning Project Visioning
6cp
Postgraduate
This subject explores the management of the physical environment from the perspective of development impact, concentrating particularly upon ecology, hydrology, geomechanics and climate. By examining the management of these physical parameters, students are able to understand the complexity of environmental carrying capacity, evaluate resource risks and comprehend the application of sound principles of ecologically sustainable development in policy and practice scenarios.

Resource management, environmental law and key policy initiatives are investigated in order to build an understanding of how regulatory frameworks are responding to increasing physical pressures. The management of movement is introduced and considered in order to relate development scale and type to transport provision and, conversely, how and why transport constrains development; more generally, the relationship between transport and sustainable forms of development.

Typical availability
Spring semester, City campus

15141 Sustainable Development
6cp
Requisites: 15121 Urban Analysis
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This is the second subject in the planning project and requires student groups to produce a vision for the future development of the chosen site, incorporating alternative proposals that respond to some of Sydney's main planning problems. The vision should draw on the assessment of these problems identified in 15121 Planning Project Analysis, and on the site's physical and human site characteristics. The vision should result in a desired kind of place for the site, which may kindle the capacity for positive change. This exercise provides hands-on experience of a key phase of plan-making.

Typical availability
Spring semester, City campus

15142 Introduction to Property and Planning
6cp
Postgraduate
This subject provides an introduction to the nature of land, property and property markets, with a focus on the different property valuation methods and the property development process. The methods used for property valuations and preparation of valuation reports, cash flow...
analysis and feasibility studies are covered, with the related concepts and issues found in property development analysis identified. The property development process and issues associated with obtaining a development approval within the planning framework are discussed.

**Typical availability**
Spring semester, City campus

**15143 Group Project A: Urban Renewal**
6cp
Requisite[s]: 15142c Introduction to Property and Planning AND 15146c Sustainable Urban Development
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces the practice of planning for large urban redevelopment sites. It involves the development by student groups of a masterplan and associated planning controls for a selected urban renewal site. Approaches to the planning of brownfields and related urban renewal master-planning are outlined. These are supplemented by case studies of urban renewal. Methods of evaluating alternative masterplans are also outlined.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**15144 Group Project B: Greenfields Development**
6cp
Postgraduate
This subject is a group and project-based subject designed to develop students’ skills in planning larger scale urban developments, such as large scale subdivisions or new greenfields developments, involving environmental assessment, design of infrastructure and services, consideration of land use and density controls, etc. Students form into small groups, and develop a masterplan for a larger-scale urban development, including the design and assessment of alternative proposals for the site. Approaches to, and techniques for, the planning of urban expansion are taught including population and household forecasting, constraint mapping, land use zone allocation, urban facilities population thresholds, and street and road layouts.

**15145 Development Negotiation**
6cp
Postgraduate
This subject develops the communicative skills and understanding needed by planners in managing urban development. It provides an introduction to community participation techniques, negotiation skills and conflict resolution techniques. It develops understanding of the perspectives of developers and other stakeholders in urban development. It introduces the role of ethics in the way planners address development proposals and developer demands.

**15146 Sustainable Urban Development**
6cp
Postgraduate
This subject provides an introduction to the triple bottom line of environmental, economic and social sustainability in urban development, particularly in relation to ecologically sustainable development. The concepts of eco-footprints and assessment methods for sustainable building and precinct developments are discussed as benchmarks for evaluating sustainability performance. Physical constraints on development including landform, hydrology and ecology are introduced. The causes and urban effects of global warming are analysed. The nature of social and economic sustainability and sustainable urban development are covered, including rating tools for sustainable building and precinct developments, sustainable transport, water sensitive urban design, sustainable energy use, and sustainable practices in national and international case studies. The feasibility of alternative methods for evaluating sustainability strategies is discussed.

**Typical availability**
Autumn semester, City campus
Spring semester, City Campus

**15211 Planning Project Development Assessment**
6cp
Requisite[s]: 15141 Sustainable Development
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This is the third subject in the planning project and requires student groups to develop at least three land-use options for the site. Each of these options is evaluated on the basis of an analysis of feasibilities, an assessment of impact and an examination of costs and benefits. The aim is to compare and contrast the options and select the most suitable for development, which adequately incorporates elements of the vision developed in the previous stage of the planning project.

**Typical availability**
Autumn semester, City campus

**15221 Urban Design and Management**
6cp
Postgraduate
This subject provides a detailed exploration of the principles of the urban design process and best practice in the management of the urban environment. By examining past and present approaches to the management of both the design process and broader urban governance, students are able to gain both a competent perception and the ability to recognise and apply sound principles of urban design and governance. Emphasis is placed on how the form of the public realm responds to social, political, environmental and economic pressures. Particular attention is focused on the promotion and control of urban development and design via regulatory instruments, plans, codes, desired future character statements, policies, etc. The evaluation of development alternatives is considered through cost benefit analysis and the planning balance sheet. The subject examines changing philosophies of urban management and governance, through the delivery of lectures in political theory and the structures of decision-making and how they have shaped planning and design practice, including the analyses of public participation and community politics.

**Typical availability**
Autumn semester, City campus

**15222 Urban Design**
6cp
Postgraduate
This subject provides an introduction to the theory and practice of urban design. It reviews key urban design movements and ideas through to transit-oriented development and new urbanism, and covers the principles of good urban design. It looks at the use of development control plans and other mechanisms to achieve good urban design. It emphasises the actual process of urban design using case studies and practical workshops.

**15231 Planning Project Implementation**
6cp
Requisite[s]: 15211 Planning Project Development Assessment
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This is the fourth and final subject in the planning project and requires student groups to develop a planning solution to allow implementation of the chosen option of the site (selected in 15211 Planning Project Development Assessment). Students are required to produce an appropriate realisation plan, strategy or other ‘vehicle’ which sets out clear aims, objectives, policies and controls. This vehicle must elaborate the framework for the achievement of the vision and be presented in a professional format with recourse to a high degree of accuracy and legitimacy.

**Typical availability**
Spring semester, City campus
15241 Urban Economics and Finance
6cp
Postgraduate
The subject presents the basic microeconomic theory underpinning the development of overall urban structures and the operation of land markets within cities; and where this arises from standard models of 'perfect competition' and 'perfect information'. This enables students to appreciate the role of planning in minimising externalities, and influence the efficiency of infrastructure such as roads, rail, water supply, waste, power and communications, and social infrastructure including education, health and community services. It also provides an overview of options for financing urban infrastructure, including debt funding backed by taxation, developer contributions, and public-private partnerships. Case studies of alternative methods of funding infrastructure are included to illustrate the key principles involved.

Typical availability
Spring semester, City campus

15251 Spatial Analysis in Planning and Property
6cp
Requisite(s): 15142 Introduction to Property and Planning AND 15146 Sustainable Urban Development
This subject introduces students to using geographic information systems (GIS) for spatial analysis in property development and planning. Students develop the skills to use standard ArcGIS software to manage and manipulate spatial data, create multidimensional thematic maps, perform simple statistical and other analyses of spatial relationships, and present spatial information in a form relevant to policy, regulatory, and development decisions. The subject introduces demographic, economic, environmental, topographic, and other physical data, and enables students to learn how to use these various data types to solve site analysis, development feasibility, market analysis, master planning, and social and economic planning problems.

15301 Planning Theory and Decision Making
6cp
Requisite(s): 15241 Urban Economics and Finance AND 15142 Introduction to Property and Planning AND 15146 Sustainable Urban Development AND 17700 Planning and Environmental Law AND 15222 Urban Design
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject studies and analyses contemporary planning theory (including the notions of democracy, power, governance and neo-liberalism) and advanced planning practice. It allows students to observe, perform and reflect on advanced techniques in the broad themes of ecologically sustainable development, community participation and economic development. Lectures explore the application of planning theory and contemporary planning approaches to: urban economic development, including the establishment of state-private sector partnerships and the fostering of industry clusters; collaborative planning, including efforts to empower people from minority cultures such as Indigenous Australians; planning as part of the overall urban management for environmentally and culturally sustainable development, and the operation of institutional frameworks; and planning for urban regeneration and urban consolidation.

Typical availability
Autumn semester, City campus

15302 Major Project: Methods
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject, together with 15303 Major Project: Analysis and 15304 Major Project: Outcomes, develops core skills that give students the ability to successfully complete rigorous and original planning problem-solving exercises. In this subject, students produce a literature review of their chosen planning problem, as the first of three parts of the major project (the other two parts are completed in Major Project: Analysis and Major Project: Outcomes). The literature review both identifies contemporary analyses relating to the problem, and places the problem into the context of wider planning issues. The literature review critiques contemporary planning practice relating to the problem, and thus develops students' ability to constructively reflect on the validity of current planning methods. Students develop an understanding of relevant research approaches and analytical techniques used in problem solving. The subject is undertaken primarily via self-direction, but students are carefully guided by their supervisor and meet on a regular basis for tutorials. The subject also incorporates seminar discussions.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15303 Major Project: Analysis
6cp
Requisite(s): 15302 Major Project: Methods
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject, together with 15302 Major Project: Methods and 15304 Major Project: Outcomes, develops core skills that give students the ability to successfully complete rigorous and original planning problem-solving exercises. In this subject, students produce an analysis of the causes and effects of their chosen planning problem, as the second of three parts of the major project (the other two parts are completed in Major Projects: Methods and Major Projects: Outcomes). Students produce a report which identifies the nature of the planning problem, the causes which give rise to this particular problem and the effects of the problem, in terms of the environmental, economic and sociocultural consequences. This allows students to evaluate the extent of the problem and the potential stakeholders involved in addressing the problem, and develops student abilities to reflectively assess the nature, causes and effects of urban planning problems from a holistic perspective that incorporates the physical environment, the economy and society. The subject is undertaken primarily via self-direction, but students are carefully guided by their supervisor and meet on a regular basis for tutorials. Students attend a seminar, where they defend and debate their report findings and their implications for the next stage, the elucidation of practical solutions.

Typical availability
Autumn semester, City campus
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
15304 Major Project: Outcomes
6cp
Requisite(s): 15303 Major Project: Analysis
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject, together with 15302 Major Project: Methods and 15303 Major Project: Analysis, develops core skills that give students the ability to successfully complete rigorous and original planning problem-solving exercises. In this subject, students produce a report describing a solution to their chosen planning problem, as the third of three parts of the major project (the other two parts are completed in Major Projects: Methods and Major Projects: Analysis). This report is the culmination of the major project. Students consider and interpret their findings from the previous two stages to provide the basis for a solution to the chosen problem. Students then develop and deliver a viable solution(s) to the problem in the form of a comprehensive report. This enhances students' abilities to develop their own considered responses to contemporary planning. The subject is undertaken primarily via self-instruction, but students are carefully guided by their supervisor and meet on a regular basis for tutorials. This provides an opportunity for the identification, presentation and discussion of creative solutions to planning problems.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus

15311 Managing Complex Projects
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This is a scenario and problem-based subject delivered through an intensive workshop and supported by online learning materials. It integrates and applies knowledge and skills focusing on project integration, including initiation, planning, implementation, delivery and post-implementation review of a project within a changing and ambiguous organisational environment.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15312 Communication and Critical Thinking
6cp
Requisite(s): 15315c Project Management Principles
Postgraduate
This subject is delivered through a mixture of experiential learning, lectures and assignments. Topics covered include communications planning, critical questioning, argumentation analysis, use of narrative in projects, persuasion, presentation, reporting, documentation and collaborative work. Attention is given to developing a strategic approach to project conversations. Students gain practical experience in working with clients, sponsors and stakeholders.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15313 Project Procurement and Risk Management
6cp
Requisite(s): 15315c Project Management Principles
Postgraduate
This subject provides an understanding of the procurement theory applied to managing a project and the associated risks. The areas of contract law, statutory regulations, legal relationships and negligence are explored. The principles of managing risk on a project are covered through a review of the Australian Standard as it applies to a project environment. Students work in teams on a case study during the workshop and independently on other assessment tasks. This subject will not be offered after 2012.

Typical availability
Autumn semester, City campus

15314 Project Implementation
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is the in-depth simulated implementation of a project, based on a complex real case study. Students work to deliver the project in teams, reacting to simulated project changes in client demands. This subject focuses on embedding and integrating standard project management capabilities that were introduced in the foundational-level subject. Students work in teams to develop a business case during the block workshop and independently on specific tasks.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15315 Project Management Principles
6cp
Postgraduate
The theory of the nine project management knowledge areas are explored by students when applied to a real-life industry project. Emphasis is given to the project being delivered according to the five project management process groups to demonstrate the students' ability to initiate, plan, implement and deliver a project while monitoring and controlling. Students work in an interactive forum to present the team project and work independently on individual assessment tasks outside the block attendance workshop.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15316 Project Time, Cost and Quality Management
6cp
Requisite(s): 15315c Project Management Principles
Postgraduate
This subject explores the underpinning concepts necessary to understand and practise the core project management competencies of time, cost and quality management. Topics include activity definition and duration estimating, schedule development and control, resource planning, cost estimating, cost budgeting and control, and feasibility studies and quality planning, quality assurance and quality control. Students work independently on a range of assessment tasks during and after the block workshop and have the opportunity to attend an introductory scheduling software class.

15321 Workplace Ecology
6cp
Postgraduate
This subject gives an overview of design considerations that aim to provide a productive and healthy work environment. Issues include indoor air quality, ergonomics, noise and privacy, spatial planning, furniture layouts, designing for flexibility and mobility, and the impact of technology on the workplace. Case studies of successful interior design solutions are examined in detail.

Typical availability
Autumn semester, City campus

15322 Engineering Services and Systems
6cp
This subject examines engineering services used in contemporary facilities; heating, ventilations, air-conditioning, electrical, fire, communications, data and security systems; energy and maintenance implications, including operating performance and repair cycles for plant and equipment; computer-based management and control systems; and intelligent buildings and monitoring technologies.

Typical availability
Autumn semester, City campus
15323 Development Management
6cp
Postgraduate
This subject examines the economic and political framework within which development occurs, the phases of initial project development and the necessary technical tools to carry out a full feasibility study for a development proposal; planning, approval and financing considerations; and strategies to deliver value for money during the development phase.

Typical availability
Spring semester, City campus

15324 Facility Obsolescence
6cp
Postgraduate
This subject examines facility obsolescence, renewal, refurbishment and adaptive re-use; heritage implications and legislative constraints; the importance of change to organisational growth and continuity; effective change management; organisational churn; and future-proofing organisations through flexible space planning and technology provision.

Typical availability
Spring semester, City campus

15325 Value Management, Negotiation and Conflict Management
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops students' skills in facilitating groups, negotiation and conflict management and mediation. Students are introduced to value management concepts and how these are applied to projects, culminating in applying what they have learnt at the workshop to a value management scenario. Students work on a series of scenarios in intensive workshop mode supported by online learning material for their individual work.

Typical availability
Autumn semester, City campus

15326 Project Management Practicum
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject focuses on embedding students' learning from previous subjects in their real-world working lives. Students are required to manage a project outside their university environment. Students develop practice-based learning capabilities through reflecting on their progress applying project management theories to their real-world projects. Students attend regular lectures and share their experiences in supported discussion when presenting progress reports and through interaction in an online discussion forum. A reflective journal and final project management plan are submitted as evidence of the students' ability to apply theory in practice.

Typical availability
Autumn semester, City campus

15327 Managing Project Complexity
6cp; block
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This is a scenario and problem-based subject that is delivered through an intensive workshop. It explores sources of complexity in projects; how complexity manifests in projects; relevant theory informing management decisions; implications for managing risk, schedule, budget, procurement; governance; capabilities needed for management of complex projects; and tools and methods for managing different kinds of complexity.

Typical availability
Spring semester, City campus

15330 Program Management
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Program management concerns the harmonised management of a number of projects and other transitional efforts to produce a strategic advantage for organisations. This subject aims to demonstrate how program management can help deliver strategies to realise benefits for an organisation and value for its stakeholders. The subject addresses the cyclic and agile nature of programs. It explains how strategic objectives and stakeholders’ expectations are used to select and prioritise a number of interdependent actions based on their contribution to benefits and their achievability. Students are then shown how to allocate and prioritise resources between actions that have been selected to deliver new capabilities to the business. Program maturity, decision management, stakeholder engagement, governance, as well as the program architecture is also discussed. During the block workshop, students work in teams and independently analysing a real-life case study to demonstrate an understanding of program management principles.

Typical availability
Spring semester, City campus

15331 Project Portfolio and Program Management
12cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Organisations that adopt projects as a means to achieving change and delivering results often find it difficult to prioritise projects and to make best use of their resources. Additionally, many recent surveys have demonstrated that project backlog is a major issue in Australia. Portfolio management is a management approach that aims to align project efforts with the corporate strategy and optimise the efficient use of resources throughout the organisation.
This subject focuses on two aspects of the management of portfolios: the selection and prioritisation of projects, based on contribution to organisational benefits and achievability; and the allocation and prioritisation of resources between those projects that have been chosen so that they can deliver the expected benefits.

Typical availability
Spring semester, City campus

15332 Strategic Project Management
12cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines managing complex projects (such as infrastructure, merger acquisition, strategic development and alliances) from the idea to the operation stage. Topics include presentation use of a meta-method for structuring, analysing, solving socioeconomic problems, and deciding under uncertain conditions. It uses both quantitative and qualitative approaches, systems thinking and system dynamics in project scenario modelling.

Typical availability
Spring semester, City campus
15333 Managing Organisations by Project
12cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject explores organisational design, re-engineering, implementation and improvement strategies for organisations managing or willing to manage by using projects. Topics include organisation theory overview, competence management and building learning organisations, change management, knowledge management, information systems, and quality issues focusing on creation of value, continuous improvement and maturity models.
Typical availability
Autumn semester, City campus
Spring semester, City campus

15334 Project Performance Assessment
12cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the concepts, methods and tools to conduct assessment and build practice improvement strategies and their customisation according to context. Topics include facilitation, evaluation and assessment competence, benchmarking methods, tools and processes, capturing lessons learnt and highlighting best practices, project taxonomy, project success and performance, information system support, developing communities of practice, and systemic intervention method and skills.
Typical availability
Autumn semester, City campus
Spring semester, City campus

15336 Systems Thinking for Managers
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The subject introduces the concepts of systems to help address management problems. It examines both hard and soft systems thinking approaches to develop an understanding of the interrelationships between various elements of a project and the environment in which they are executed. It equips students with systems diagnosis, systems thinking and business modelling tools to analyse issues arising in projects and design ways to maintain internal stability within a project while increasing its adaptive capability, and to deal with factors affecting the project due to factors beyond its control in its external environment.
Typical availability
Autumn semester, City campus

15338 Realising Project Benefits
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject addresses the realisation of value and benefits from projects and the interpretation of project outcomes. Within the context of program and project management, students explore and discuss how organisations transform project activity into measurable business benefits. Through participation in a live case simulation, students use a range of tools and methods to create a shared vision, map and analyse benefits and build a business case to be implemented through a program of projects. Students explore different approaches to managing project benefits through a practical workshop.

15339 Project Performance Evaluation
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
In this subject emphasis is placed on assessment of project performance from the perspectives of delivery of project key success factors and business benefits. Topics also include setting strategic objectives, information support systems and knowledge management in a project environment.

15341 Sustainable Development
12cp
Postgraduate
This subject examines the design and management of facilities in the context of environmental performance; low energy design solutions, renewable energy sources, energy measurement and conservation strategies, life-cost evaluation, occupancy costs, and asset management tools such as post-occupancy evaluation and environmental auditing aimed at effective facility operation; and embodied energy and recycling.
Typical availability
Autumn semester, City campus

15342 Environmental Design
12cp
This subject provides the economic evaluation and operation of existing facilities in the context of improved business performance and worker productivity; and an understanding of facility strategies, organisational responsibilities and structures and the appropriate decision-making tools that should be applied. Specific areas of focus include workplace ecology, needs analysis, space planning principles, computer-aided facility management solutions, outsourcing and risk analysis.
Typical availability
Spring semester, City campus

15343 Strategic Facility Planning
12cp
Postgraduate
This subject examines issues affecting the interaction between economic development and environmental protection. It includes an understanding of the importance of ecologically sustainable development and the provision of strategic advice on the most effective use of resources over a project’s life cycle. Advanced selection criteria and the measurement of sustainability are discussed in the context of political, legal, ecological and societal considerations.
Typical availability
Autumn semester, City campus

15344 Facility Performance
12cp
Postgraduate
This subject examines the economics and management of facilities and support services using a whole-of-life approach; property maintenance, financial management, value identification and quality assessment; the impact of taxation on portfolio management, including asset depreciation; due diligence; environmental health and safety issues; and planned retrofitting, refurbishment, adaptive re-use and implications for business continuity.
Typical availability
Spring semester, City campus
15345 Minor Project
6cp
Requisite(s): 15303 Major Project: Analysis
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject requires students to analyse a planning problem and develop a viable solution(s). Students analyse the causes which give rise to this particular problem and the effects of the problem, in terms of environmental, economic and socio-cultural factors. They then develop a creative solution to the problem, drawing on existing literature as appropriate. The subject is undertaken primarily via self-direction, but students are carefully guided by their supervisor and meet on a regular basis for tutorials.

15346 Governance and Leadership of Project Management
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject aims to examine the concepts of project governance at three levels within the project-based organisation: the board, the context within which projects thrive, and the project. Governance in this context includes the governance of portfolios and programs. The subject introduces students to modern concepts of governance of project management. Leadership theories are reviewed and students are introduced to the competencies of project leadership required to support effective governance of project management.

Typical availability
Spring semester, City campus

15347 The Project Organisation: A new Organisational Model
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines how an organisation can use a ‘project approach’ to generate value for its stakeholders in a rapidly changing and fast-moving economic context, while sustaining long-term competitive advantage. Students learn how organisations are increasingly using project, portfolio and program management, combined with project/program management offices (PMO) to manage their change activities. Such organisations are now commonly referred to as ‘Project Organisation’ (PO). Students are exposed to different organisational models and trends through real-life case studies, that demonstrate how an integrated and dynamic PO can be developed to sustain competitive advantage. In the block workshop, students work independently and through team activities to demonstrate an understanding of the PO concept.

Typical availability
Autumn semester, City campus
Spring semester, City campus

15348 Commercial Management of Projects
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
A scenario and problem-based subject delivered through an intensive workshop and supported by online learning materials. The subject focuses on the business aspects of Project Management. It is aimed at meeting the needs of managers in environments that require an emphasis on project financing and profit and loss margins. The subject includes a focus on organisational-level risk management, gateway and approval processes, and covers the different contracting structures required to address the needs of a variety of contexts.

15349 Integrated Project Delivery Management
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Further information on this subject is available from UTS: Design, Architecture and Building.

15350 Professional Project Practice
6cp
Requisite(s): [15315 Project Management Principles AND [1 Spk(s) in C12% OR 1 Spk(s) in C42%]]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject focuses on the professional aspects of project management. It aims to develop an understanding of the importance of professional status through the formal acquisition of knowledge, standard practices and regulations. The subject includes a focus on the role of the project manager in this developing profession through self-regulation, codes of conduct, bodies of knowledge and competency standards. The subject sits within the advanced stream in the Master of Project Management and is of relevance to any students interested in developing their level of understanding and application of the professional practice of managing projects.

Typical availability
Spring semester, City campus

15356 Reflective Project Practice
6cp
Requisite(s): 15315 Project Management Principles
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides students with the tools and theories required to develop their reflective capability in a project context. Different methods are explored individually and in groups to make sense of the human and organisational factors that contribute to project success and/or failure. Students apply reflective practices to current and completed projects using specific frameworks to further develop their project management capabilities.

Typical availability
Spring semester, City campus

15456 Industry Project Studies A
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

Typical availability
Spring semester, City campus

15459 Project Management Methodologies
6cp
Requisite(s): 15315c Project Management Principles
Postgraduate
A project management methodology is a documented process for management of projects that contains procedures, definitions and roles and responsibilities. This subject addresses the nature of project management methodologies and their use in organisations through a specific case study.

15460 Doctoral Thesis: Project Management
0cp
Postgraduate
This subject is the thesis component for students in the Doctor of Project Management course.

Typical availability
Autumn semester, City campus
Spring semester, City campus
This subject is the thesis component for students in the Doctor of Facility Management course.

**Typical availability**
Autumn semester, City campus

**15642 Introduction to Research**
6cp
Requisites: 36 credit points of completed study in C04006 Master of Project Management
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate

This subject develops research skills in Master of Project Management and Doctor of Project Management students and is delivered through online readings and activities. The subject introduces the academic research process to postgraduate students and equips them with knowledge about research strategies, research methodology and methods to prepare them to undertake postgraduate research for doctoral studies; or to undertake small research projects and submit research reports.

**Typical availability**
Spring semester

**15643 The Research Process**
6cp
Requisites: 15462 Introduction to Research
Postgraduate

This subject enables Master of Project Management students to conduct a small scale research project and submit a research report for assessment/publication and enables Doctor of Project Management students to prepare a research proposal for their first assessment to confirm their candidature. The focus of this subject is on planning a research project, reviewing the relevant literature, identifying risks associated with ethical issues, justifying the research methodology, designing the research projects, analysing quantitative and qualitative data, and writing a comprehensive research proposal and/or a research report.

**Typical availability**
Spring semester, City campus

**15644 Doctoral Thesis: Project Management**
0cp
For subject description, contact UTS: Design, Architecture and Building.

**15601 Planning for Bushfire Prone Areas**
6cp; block
Postgraduate

This subject is designed to provide planning and development professionals, particularly those working in the local government arena, with the necessary skills and understanding to apply the relevant requirements of the Environmental Planning and Assessment Act 1979, Rural Fires Act 1997 and AS 3339/99 (Buildings in Bushfire Prone Areas). Severe bushfires over recent years have again highlighted the importance of ensuring that development in bushfire prone areas is carefully planned and controlled to maximise safety. This has been given a high priority by the NSW Government through amendments to legislation and publication of a new guideline, Planning for Bushfire Protection. It is essential that professionals involved in this area have a thorough grasp of both the legislation and planning and design principles involved, as well as an understanding of related aspects of bushfire behaviour and management. This is required not only to produce quality outcomes but also to help protect local councils against claims of negligence in exercising their development control functions.

**15602 Social Planning and Development**
6cp
Requisites: 15604 Local Government Management Principles and Practice 1
Postgraduate

Effective social planning and development should be a key strategy by which councils exercise leadership. Under the NSW Department of Local Government’s requirements for integrated planning and reporting, it is a central element of the new Community Strategic Plans. Councils are required to demonstrate their awareness and understanding of community needs and aspirations, and to build relevant initiatives into their corporate programs.

**15603 Integrated Strategic Planning**
6cp
Requisites: 15604 Local Government Management Principles and Practice 1
Postgraduate

This subject adopts a multidisciplinary approach that recognises the many different strands of strategic planning in modern local government. While strategic planning had its origins in plans for land use and development, councils must now prepare a wide range of strategies also covering environmental management, social and economic development, infrastructure provision and various aspects of regulation and service delivery. These need to be linked to statutory planning instruments as well as corporate plans and budgets. This subject reviews the principles and concepts underlying all strategic plans; examines the legislative and organisational frameworks within which strategic planning takes place; incorporates case studies of different types of strategic plans; and focuses on some of the ways in which plans may be implemented more effectively. In particular, the subject examines the case study of the NSW Department of Local Government’s new proposal for 10-year community strategic plans and what this might mean in practical terms.

**15604 Local Government Management Principles and Practice 1**
6cp
This subject introduces the key principles, theories and pressures that affect management in a local government workplace. It develops an understanding of the background and origins of current local government management practice and explores some current literature relevant to public sector management.

**15605 Local Government Management Principles and Practice 2**
6cp; block
Requisites: 15604 Local Government Management Principles and Practice 1 OR 49460 Local Government Management Principles and Practice 1
Postgraduate

This subject allows students to build upon the concepts, principles and theories that they learnt in 15604 Local Government Principles and Practices I and develop skills necessary to put them into practice. It requires students to take the knowledge learnt and embark on a series of actions in both the classroom and their workplace. Students are required to negotiate and develop a series of actions that are valuable to both themselves and their organisation. The subject has a particular emphasis on the research and articulation of ideas and the use of discussion and debate as a tool for future learning.

**15606 Vocational Competencies 1**
6cp
This subject enables students to develop and undertake an individual program of vocational study in an area of professional competence that builds on their existing skills and previous studies.

**15607 Vocational Competencies 2**
6cp
This subject enables students to develop and undertake an individual program of workplace learning in a specialist area of professional competence that builds on their existing skills and previous studies.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
15608 Corporate Management and Organisational Change
6cp; block (five-day intensive workshop either on or off campus)
Requisite(s): 15604 Local Government Management Principles and Practice 1 OR 49460 Local Government Management Principles and Practice 1
This subject introduces the key legislative requirements for corporate and strategic planning in NSW local government. It builds on the organisational analysis carried out in foundation subjects and requires participants to examine more closely the planning processes that drive various aspects of the council. It requires students to develop a comprehensive knowledge of planning requirements and to clearly understand the interrelationships at play. It is a fundamental knowledge base for the understanding of better ‘place management’. This subject is focused on achieving better outcomes through more effective strategic and corporate planning in local government. Its starting point is that councils need to match broadly based, outward-looking strategic planning for the whole of the local community and environment, with more rigorous and outcomes-focused corporate planning for their own operations. The subject highlights models and opportunities to integrate planning processes, strengthens links to budget and financial systems, enhance decision-making for implementation, and improve performance management.

15609 Local Environmental Management
6cp; block (five-day intensive workshop either on or off campus)
Requisite(s): 15604 Local Government Management Principles and Practice 1 OR 49460 Local Government Management Principles and Practice 1
This subject is focused on achieving better community outcomes through more effective integration of the principles and practices of ecologically sustainable development (ESD) into the day-to-day management of a council. This is a highly practical subject, strongly focused on how to achieve better results. It covers a wide range of processes and techniques that improve local government’s performance in promoting sustainability and maximising quality environmental outcomes. This is particularly important at a time when both governments and communities have increasing concerns about these issues and higher expectations of local government’s performance.

15610 Local Government Leadership: Personal and Professional Skills
6cp
In today’s local government environment, leaders need to have more than just intellectual ability and technical know-how. They should also exhibit what is known as emotional intelligence. This is their ability to manage their emotions and those of others, their skill in inspiring performance in others and their ability to lead change, communicate effectively, and build and sustain work relationships. This subject develops participants’ understanding of the leadership issues facing managers in the local government environment. It then focuses on some core leadership capacities and guides participants through the development of their personal action plan to enhance their leadership skills.

15611 Managing Local Enterprise
6cp
This subject involves an intensive research-based project. Content is discussed between the student and subject coordinator to best meet individual needs. Students are guided to select an appropriate topic and then carry out research from industry and academic resources.

15612 Building Regulation
6cp; Postgraduate
This is an introductory subject on interpreting and applying the regulatory requirements for dwellings (Class 1) and outbuildings (Class 10) as contained in the Building Code of Australia and the Environmental Planning and Assessment Act 1979.

15613 Development Control
6cp; Postgraduate
This subject deals with the basic building blocks of development control, ranging from the legal framework to planning instruments and policies, specific elements of the assessment process, and the workings of the Land and Environment Court. It is designed to complement experience at work and ‘on the job’ training for those relatively new to the field of development assessment. It provides essential knowledge and skills for effective professional practice, balancing planning law and policy with impact assessment and design factors.

15614 Advanced Development Assessment
6cp; Postgraduate
This subject has a strong practical focus and seeks to promote fresh thinking and improved techniques in development assessment in order to produce better development outcomes. It deals with key themes including interpreting and applying planning instruments; identifying and acting on key issues in assessment; precinct, site and environmental analysis; performance-based assessment and managing the assessment process. It is aimed at more experienced practitioners who see a need to broaden and refresh their practical skills, consider new ideas, and perhaps change their current approach.

15615 Advanced Building Regulation
6cp
Recommended studies: 49277 Building Regulation
Postgraduate
This subject deals with building regulation requirements and performance-based solutions for Class 2-9 buildings under the Building Code of Australia and NSW Environmental Planning and Assessment Act. It covers multiple dwellings, commercial and industrial buildings, and provides guidance on up-to-date theory and practice in assessment. Because the subject deals with more complex buildings and issues, students should have substantial experience in building regulation.

15616 Community Leadership Project
6cp; block
Requisite(s): 15618 New Perspectives in Local Government Leadership
Postgraduate
The Community Leadership Project (CLP) is a flexible, project-based subject that enables students to work with community groups to achieve real outcomes. The CLP is a semester-long subject where students work on a community-based project and receive full academic supervision. Students identify a community project and develop a work plan together with expected outcomes with the community group and teaching staff. Ongoing support is provided throughout the semester. The CLP offers students the opportunity to further their personal leadership skills through independent, self-directed learning and to use these skills to benefit the community. Students are also given the opportunity to work alongside other local leaders.

Typical availability
May session, City campus

15617 Team Building and Leadership
6cp
Requisite(s): 15618 New Perspectives in Local Government Leadership
This subject requires students to build and lead a team through a local government hypothetical scenario. Action learning is combined with workshop sessions, coaching and mentoring. Students are guided through a series of steps to build and form a team and then take the team through a hypothetical local leadership challenge. This is followed by a de-brief, feedback and a critical reflection. This subject allows students to build and enhance their own leadership capabilities and also provide support and encouragement to others. Students keep a logbook throughout the subject and then write up a reflective analysis at the end of the subject.
15618 New Perspectives in Local Government Leadership
6cp
This subject introduces students to a range of perspectives on local government leadership. Drawing from the literature, key government and local government documents, as well as from relevant case studies, the subject explores local government leadership in both theory and practice. The subject covers topics such as civic leadership, public service, public value, ethics, integrity, social capital, leadership skills, innovation risk and due process. It involves workshops, readings, guest presenters and recorded interviews.

15619 Comparative Local Governance
6cp
Requisite(s): 16068 Corporate Management and Organisational Change
Further information on this subject is available from UTS: Design, Architecture and Building.

15621 Research Issues in Local Governance
6cp
Requisite(s): 16068 Corporate Management and Organisational Change
Further information on this subject is available from UTS: Design, Architecture and Building.

15622 Enhancing Local Government Service Delivery
6cp
Requisite(s): 15604 Local Government Management Principles and Practice 1
Further information on this subject is available from UTS: Design, Architecture and Building.

15903 Thesis (Quantity Surveying)
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

Typical availability
Autumn semester, City campus

16072 Industry Economics
6cp
Requisite(s): 16125 Built Environment Economics
Undergraduate
This field of economics is concerned with the relationship between the strategic behaviour of firms and the industry and markets they compete in. The structure-conduct-performance framework is explored and related issues such as market power, entry and exit are discussed. The subject provides students with an understanding of how economists analyse industrial structure and firm conduct as well as a basic knowledge of how competition policy is used to promote competition and safeguard consumers' interests. Topics include game theory and firm strategies such as advertising, product differentiation and price discrimination. Issues in the economics of imperfect competition, such as barriers to entry, collusion, switching costs, market structure and regulation, are also covered, as are the impact of technology and the role of standards and network effects.

Typical availability
Spring semester, City campus

16074 International Construction
6cp
Undergraduate
This subject aims to introduce students to construction industry structure, practices and methods of construction adopted in various parts of the world. The subject covers current practices and future trends in various countries and international approaches to construction procurement, management practices and construction resource availability, requirement and usage. It also covers the impact of local economic, labour and technical parameters on construction resource availability, requirement and usage. It involves workshops, readings, guest presenters and recorded interviews.

Typical availability
Spring semester, City campus

16075 Sustainable Building Technology
6cp
Undergraduate
This subject aims to provide the student with the skills necessary to evaluate the embodied energy and energy efficiency of existing construction methods as well as introducing alternative and more energy efficient methods. It also covers the issues surrounding recycling of building materials and alternative energy sources and issues affecting the interaction between economic development and environmental protection. It includes an understanding of the importance of ecologically sustainable development and the provision of strategic advice on the most effective use of resources over a project's life cycle. Advanced selection criteria and the measurement of sustainability are discussed in the context of political, legal, ecological and societal considerations.

Typical availability
Autumn semester, City campus

16076 Building Assessment
6cp
Undergraduate
The subject aims to provide students with the skills necessary to assess the technical condition of new and existing buildings. Methods appropriate to each of the various building components (including services) are covered. The subject also covers the assessment of the technical condition of existing buildings and the impact of that condition on possible future use of the building. Detailed knowledge of the construction methods used in the past and the likely deterioration with time that would be expected of the building elements.

Typical availability
Autumn semester, City campus

16077 Advanced Construction Technologies
6cp
Undergraduate
This elective subject examines the structure and performance of various building structures (such as space frames) which are not generally covered within the core part of the program. It also looks at innovative building systems and examines issues such as the performance of buildings under unusual loading conditions and in fires. The subject also considers the latest developments in construction technology both within Australia and overseas. Students are required to evaluate these techniques to identify their applicability to the local building industry.

16078 Fire Dynamics
6cp
Undergraduate
This subject covers basic fire engineering fundamentals – problem-focused and applied-learning techniques in the areas of fluid dynamics, mass transfer and heat transfer.

16079 Performance-based Certification
6cp
Undergraduate
This subject teaches students to assess and understand the intent of codes and regulations. It also covers regulatory making processes and drafting of building regulations, the Building Code of Australia, performance versus prescriptive provisions and alternative design solutions, case studies, the certification process, the certification of major buildings, specific fire design processes, and procedural requirements of the Fire Engineering Design Guidelines.

16080 Fire Safety Systems
6cp
Undergraduate
This subject covers in detail all the fire safety subsystems and terms of their contribution to life safety, property protection, contents protection, etc., regarding their criteria, performance, operation, maintenance and control; including case studies.
16081 Human Behaviour in Fire
6cp
Undergraduate
This subject looks at various issues to do with human behaviour in fire. Topics covered include occupant characteristics, cues, response, egress simulation and design, egress systems, wayfinding, tenability criteria, design methodologies and verification.

16082 Expert Witness
6cp
Undergraduate
This subject comprises experience at giving expert testimony. Topics include the purpose and role of an expert witness, the context within which expert testimony is delivered, rules of evidence and natural justice, examination and cross-examination and the law relating to consultants in the construction industry. Students research a particular area of dispute, prepare a written report and participate in a mock tribunal hearing.

16083 Evolution of Technology
6cp
Undergraduate
The focus of this subject is the exploration of the history of technology and the role of invention and design innovation in the process of economic growth and social development. An introduction to chaos theory and complexity and the evolution of technology brings together two of the most potent forces in our history for exploration and analysis. The subject evaluates technology in the modern context of the sciences of complexity. The dialectic between technology and evolution is considered.

16084 Construction Practice Project
6cp, 3hpw (workshop) and may include fieldwork.
Undergraduate
In this subject students explore areas of interest related to the special projects content through a self-directed learning contract or, when offered, intensive workshop mode. The areas for study within the special projects are construction management theory, construction technology or case study. This flexible learning approach allows students to further examine these areas of study in greater detail, or to explore another issue relevant to the topic that has an application to their academic and career development. Projects that are offered may respond to special conditions within the community and/or faculty. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students. Enrolment in this subject is granted upon negotiation with the course director and students must demonstrate that they have a viable project, study plan and appropriate academic supervision.

Typical availability
Spring semester, City campus

16085 Building Control and Regulations
6cp
Undergraduate
This subject provides students with an understanding of the NSW building control system and the technical requirements of the Building Code of Australia.

16103 Materials Science
6cp
Undergraduate
This subject introduces students to the properties, behaviour and testing of construction materials and the principles of heat, light and sound as they apply to building design. Students explore the important link between ecologically sustainable design and construction material choice during the design process. This includes an examination of the durability and life-cycle of construction materials and the embodied energy and energy efficiency of various design options and construction methods.

Typical availability
Spring semester, City campus

16104 Preparatory Studies
6cp
Undergraduate
This subject helps students to develop professional communication and computing skills. It covers basic research methodologies including library skills, information gathering, written communication skills, and academic and essay/report writing. It also includes oral presentation skills, industry orientation and basic technical drawing skills.

Typical availability
Autumn semester, City campus

16105 Cost Management 1: Measurement
6cp
Undergraduate
This subject examines the principles, procedures and practical application of construction quantities measurement. It commences with an overview of the importance of and the use and application of construction quantities. Students carry out a series of detailed exercises in construction quantities calculation, measurement and description utilising electronic CAD/BIM technology. The Australian Standard Method of Measurement of Building Works is used as the main measurement standard but students explore the differences in approaches to measurement for builders quantities, estimates, cost planning and other forms of quantities.

Typical availability
Spring semester, City campus

16106 Drawing and Surveying
6cp
Undergraduate
In this subject, detailed instruction is given in manual drafting and graphic skills and the reading of construction drawings. Students are introduced to CAD work using 2D CAD packages. In terms of surveying, the subject covers the process of setting out works; extractions of information from surveying drawings, levels and contours; the choice of setting out techniques; the use of tape, level, theodolite and optical plummets; the NSW land title systems and the powers of public authorities. Fieldwork involving the use of building surveying equipment is undertaken.

Typical availability
Spring semester, City campus

16107 Planning and Design Process
6cp
Undergraduate
This subject introduces students to the necessary skills and considerations for planning and design processes. It covers: design principles, building regulations, approvals processes (DA, BA), environmental impact of buildings, integrated design, contextual issues which relate to human impact on the environment including environmental impact statements; economic theories of land use including urbanisation; effects of controls; provision of services; rehabilitation and renewal; welfare provision; transportation; decentralisation; heritage considerations; environmental law and procedures; powers of environmental protection agencies; global warming and ozone depletion; international conservation issues; and policy strategies and initiatives.

Typical availability
Spring semester, City campus

16108 Introduction to Law
6cp
Undergraduate
This subject is an introduction to the legal system in Australia including sources of law, the court system and the legal personnel. It includes a detailed study of contract law and an outline of criminal law, civil law, industrial law, insurance law, dispute resolution, property law and the law of business associations.

Typical availability
Autumn semester, City campus
16109 Construction Technology 1
6cp
Undergraduate
This subject examines construction technology for single dwelling (Class 1A) residential buildings. Students are introduced to construction terminology and typical construction/design details and their components. The major elements in the residential construction process (site considerations, foundations, footings, floors, walls, roof framing and coverings, windows and doors, internal linings and joinery, cladding, finishes and landscaping) are examined in detail. Examples of alternate and innovative forms of construction are provided. Basic structural principles are explained throughout the subject and students are introduced to basic residential building services (hydraulics, electrical and fire protection systems). Students are also introduced to the main building regulations/codes governing residential construction, such as the Building Code of Australia and Australian Standards.

Typical availability
Autumn semester, City campus

16123 Introduction to Property
6cp
Undergraduate
Through the delivery of lectures, seminars and case studies, this subject gives an introduction to property studies. It introduces the various property professions, the property market, property investment analysis and the methodology and technical tools used for valuing real estate.

Typical availability
Autumn semester, City campus

16126 Appraisal and Statistics
6cp
Undergraduate
Appraisal and statistics provides students with the elementary tools needed in undertaking and analysing property-related mathematics and statistics. The mathematical component encompasses the business application of percentages, compound interest and annuities. The majority of the subject is focused on statistical concepts and applications.

Typical availability
Spring semester, City campus

16109 Construction Technology 1
6cp
Undergraduate
This subject examines construction technology for single dwelling (Class 1A) residential buildings. Students are introduced to construction terminology and typical construction/design details and their components. The major elements in the residential construction process (site considerations, foundations, footings, floors, walls, roof framing and coverings, windows and doors, internal linings and joinery, cladding, finishes and landscaping) are examined in detail. Examples of alternate and innovative forms of construction are provided. Basic structural principles are explained throughout the subject and students are introduced to basic residential building services (hydraulics, electrical and fire protection systems). Students are also introduced to the main building regulations/codes governing residential construction, such as the Building Code of Australia and Australian Standards.

Typical availability
Autumn semester, City campus

16123 Introduction to Property
6cp
Undergraduate
Through the delivery of lectures, seminars and case studies, this subject gives an introduction to property studies. It introduces the various property professions, the property market, property investment analysis and the methodology and technical tools used for valuing real estate.

Typical availability
Autumn semester, City campus

16126 Appraisal and Statistics
6cp
Undergraduate
Appraisal and statistics provides students with the elementary tools needed in undertaking and analysing property-related mathematics and statistics. The mathematical component encompasses the business application of percentages, compound interest and annuities. The majority of the subject is focused on statistical concepts and applications.

Typical availability
Spring semester, City campus

16129 Forensic Trust Accounting
6cp
Requisite(s): 16124c Accounting and Business Management OR 16264c Accounting and Business Management
Undergraduate
These prerequisites may not apply to students in certain courses. There are also course prerequisites for this subject. See access conditions.

Undergraduate
This subject incorporates the assimilation of accounting and governance principles with an emphasis on trust accounting under the relevant statutory and regulatory requirements. Students develop trust accounting and bookkeeping skills and knowledge to accurately maintain the appropriate accounting records. Students are introduced to analytical and critical thinking skills with regards to fraud detection.

Typical availability
Spring semester, City campus

16127 Digital Built Environment
6cp
Core
Undergraduate
This subject provides students with an introduction to global digital technologies that are revolutionising society and business practices with a focus on leading edge digital technologies used in planning, designing and constructing the built environment. The key technologies addressed include geographical information systems (GIS), building information modelling (BIM) and spatial analysis. The use of these technologies to optimise project information flow and management are explored and key planning and project management software systems covered. Students are introduced to the concept of virtual projects and remote project management. The subject also addresses the main industry issues, challenges and opportunities related to the development and practical application of these digital technologies.

Typical availability
Autumn semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/watch?v=Zi34r4GYaFs
- Academic video: www.youtube.com/watch?v=orXAFKULIA

16138 Site Establishment
6cp
Requisite(s): 16204 Construction Technology 2 OR 16265 Construction Technology 2
Undergraduate
This subject examines the technology and processes involved in construction site establishment and operation and site surveying. The changing nature of the site as construction evolves is also explored. The key issues surrounding site excavation are also explored and include maintaining faces of excavation, shoring, underpinning, piling and other sub-strata operations. The design and erection of temporary structures to support construction works during the course of a project are examined in detail. Students are introduced to site surveying including advanced set out and levelling skills, setting out using theodolites and a thorough background in all building marking and location techniques. Safety requirements and legal liabilities form a thread through the whole subject.

Typical availability
Autumn semester

16203 Cost Management 2: Estimating
6cp
Requisite(s): 16105 Cost Management 1: Measurement
Undergraduate
This subject examines estimating practices and techniques typically used by contractors. Construction measurement and pricing underpin the subject and includes breaking construction costs and quantities into labour, material, plant, sub-contract and indirect cost components.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
The differences in quantity-related, time-related and fixed costs are explored. A series of tutorials and exercises in quantifying and pricing construction work items and activities are carried out by students. The subject then looks at more strategic estimating areas such as tender preparation, the use of builder’s bills of quantities, obtaining and checking sub-contractor quotations, pricing preliminaries and determining margins for profit and overheads. Estimating software applications are utilised throughout the subject and students are exposed to leading edge practices that involve integrating construction cost estimating into building information modelling (BIM) systems.

**Typical availability**
Autumn semester, City campus

16205 Services 1

- 6cp
- Undergraduate

This subject provides an introduction to electrical, airconditioning, vertical transportation, and fire protection services and systems, covering terminology, design and construction requirements. It also includes an introduction to intelligent buildings and an in-depth study of coordination, integration, installation and inspection of services, and safety and access requirements.

**Typical availability**
Spring semester, City campus

16206 Structures

- 6cp
- Undergraduate

This subject examines the role of structural engineers and the structural knowledge that project managers require to effectively manage and supervise projects and to be able to interact with and manage structural engineers as part of the design team. This includes the development of an understanding of structural principles by introducing students to the loads acting on simple and complex structures and demonstrating how these loads are supported by structural members and transmitted to footings. Students are provided with an appreciation of the structural behaviour of common structural systems and temporary structures through the calculation of internal structural forces and moments. Students also develop an understanding of typical structural design documentation with a focus on structural drawing and specification details.

**Typical availability**
Autumn semester, City campus

16207 Cost Management 3: Cost Planning

- 6cp
- Requisite(s): 16203 Cost Management 2: Estimating
- Undergraduate

This subject covers the principles and practices of construction economics involving project scope management, the establishment of project budgets, preliminary estimating, cost planning, cost modelling and elemental building cost analysis. The role of the cost planner in the project design team is investigated and the principle of ‘designing to a cost’ rather than ‘costing a design’ is emphasised. The differences between project price, cost and value are identified. Scope management is a critical part of the cost planning process and the principles and practices of project scope identification, management and control are examined in detail. The subject then examines long-term operational costs and environmental impact through the concepts of life-cost planning and multi-objective decision analysis. Cost planning exercises utilising cost data bases, historical building cost data, price indices and leading edge cost planning software are implemented to strengthen student understanding. The subject concludes with an overview of the integration of cost planning practices with building information modelling (BIM) systems.

**Typical availability**
Spring semester, City campus

16209 Building Science/Materials 2

- 6cp
- Requisite(s): 16103 Materials Science
- Undergraduate

This subject looks at advanced principles of heat, light and sound as they apply to building design. It examines in detail issues such as the embodied energy of materials and the life cycle of building materials as they relate to sustainable development. The subject also focuses on the material properties of concrete, soil and rocks and the testing thereof.

**Typical availability**
Spring semester, City campus

16212 Digital Design and Construction 1

- 6cp
- Undergraduate

This subject introduces students to 3D modelling, construction documentation and 3D model coordination. Students are provided with a foundation in 3D modelling principles and procedures. They progress to 3D construction modelling and 2D documentation, including basic level scheduling and estimating. Students develop an understanding of how to read and coordinate architectural, structural, and service design models and documents (plans and specifications), apply building codes, model a residential project using building information modelling (BIM) technologies, effectively produce electronic construction documentation, coordinate 3D model reviews, and undertake interference checking so as to identify construction problems and resolve conflicts. Skills are developed in BIM environments and the current issues surrounding these technologies are discussed.

**Typical availability**
Autumn semester, City campus

16231 Property Management

- 6cp

Through the delivery of lectures, seminars and case studies, this subject intensively examines the management of commercial property. It covers the various lease structures, the role of the property manager, including the enforcement of the lease conditions, the statutory requirements, and budgeting and forecasting.

**Typical availability**
Autumn semester, City campus

16232 Property and Political Economy

- 6cp
- Undergraduate

This subject is designed to allow students to engage with and debate contemporary issues of property and the political economy. It offers an appreciation that the institution of property is a human construct, adapted to meet the changing needs of a particular society at a given moment in time. Taking a property-rights approach to the political economy, issues for current practice are examined including customary tenure, environmental concerns, land taxation, equity and intercultural contrasts.

**Typical availability**
Spring semester, City campus

16233 Urban Planning Process

- 6cp
- Undergraduate

This subject focuses on the regulation of the land-development process by analysing the nature and necessity for planning. Students are introduced to the contemporary structure of the NSW planning system, enabling an understanding of the plan-making process and the power relations between the State, local consent authorities, the community, and agents of development. A key aim is to allow students to recognise the application of sound planning and design practice to the fields of residential and commercial development.

Note: Students should be aware that the statutory and regulatory regimes which govern planning in NSW are under continuous review. Changes are frequent. UTS endeavours to maintain currency of lecture material but occasionally some items may be obsolete.
Typical availability
Autumn semester, City campus
Spring semester, City campus

16234 Valuation Methods
6cp
Undergraduate
This subject is an in-depth study of the role, functions and obligations of the valuation profession and the purposes of valuation. It covers the purposes of valuation and concepts of value and their use in the market place.
The methods of valuation covered include the direct comparison, summation, capitalisation, hypothetical development and residual methods of valuation. It introduces financial theory and the application of the time cost of money.

Typical availability
Spring semester, City campus

16235 Urban Economics
6cp
Requisite[s]: 16125 Built Environment Economics OR 16466 Built Environment Economics
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject engages with economics, demographics, geography, planning and political science within property and the built environment. It provides a basis for understanding the forces that shape urbanism, its form and structure and the factors which impact on its viability.

Typical availability
Spring semester, City campus

16236 Property Cash Flow Analysis
6cp
Requisite[s]: 16123 Introduction to Property OR 16136 Introduction to the Built Environment OR 16468 Introduction to the Built Environment
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines application and theory of cash flow analysis; discounted cash flow analysis with computer modelling; working capital management; forecasting and theory; various forms of risk analysis, including sensitivity and scenario analysis with computer skills; and forecasting and validity issues. It introduces forecasting approaches including regression, time series and chaos; validity of forecasting for future property variables in cash flow valuation.

Typical availability
Autumn semester, City campus

16237 Property Taxation
6cp
Requisite[s]: [16123 Introduction to Property OR 16136 Introduction to the Built Environment OR 16468 Introduction to the Built Environment] AND [16124 Accounting and Business Management OR 16264 Accounting and Business Management]
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject analyses various forms of taxation relating to property holdings and property investment; income tax, capital gains tax, depreciation allowances, land tax, stamp duties and goods and services tax; taxation of trusts; negative gearing; and alternative forms of taxation and their likely impacts on the property industry.

Typical availability
Spring semester, City campus

16238 Research Methods
6cp
Undergraduate
This subject is designed to give students the skills to select and use appropriate procedures in research and project studies and to understand and manage the various facets of research projects. This subject provides students with the required skills to undertake a number of types of research studies.

Typical availability
Autumn semester, City campus

16257 Advanced Procurement Methods
6cp
Undergraduate
This subject examines the range of methods used when procuring built assets, with an emphasis on the innovative, non-traditional methods found on large, complex projects. The subject contrasts traditional procurement methods introduced in earlier subjects with collaborative procurement methods aimed at reducing the cost of construction and operation, achieving milestones, shortening duration, reducing claims, and improving constructability and innovation. Case studies of major projects are used to identify the issues found with project delivery systems that combine designers, builders, and suppliers into an integrated project team. Designing procurement systems to minimise the risk of collusion and corruption is discussed.

16258 Financing Construction Projects
6cp
Requisite[s]: 16125 Built Environment Economics OR 16466 Built Environment Economics
Undergraduate
This subject examines in detail the various financing options for building and construction projects including joint ventures, private finance infrastructure initiatives, international collaborations and project finance options involving government guarantees, off-take agreements and producer payments. The subject gives students a deeper knowledge of project finance methods found in the property and construction industries, so graduates are better suited to industry practice, consistent with intended graduate attributes. The issues covered apply to the project finance techniques, requirements and processes found in construction finance and used for property developments.

16259 Honours Research 2
6cp
Requisite[s]: 16661 Honours Research 1 OR 16262 Honours Research 1
Undergraduate
In this subject students develop an understanding of research methodologies. Workshops introduce the concept of research methodology and explore various approaches to answering research questions. Students are introduced to qualitative and quantitative methodologies, and develop an understanding of the advantages and disadvantages of each approach. Students work closely with supervisors to develop a research design and write the methodology section of their project. Research methodologies are presented and discussed in a workshop. Students either apply for ethics approval for their study, or present a detailed analysis of the validity and quality of the secondary data they will use in their study.

Typical availability
Spring semester, City campus
16260 Honours Research 3
6cp
Requisite(s): 16662 Honours Research 2 OR 16259 Honours Research 2
Undergraduate
This subject involves the preparation and submission of an original journal-ready honours research article, which would normally be 5000-6000 words in length. The article must comprise the identification of a problem, a thorough literature review of the topic and development of a solution based on a selected research design. The submission should include comprehensive annotated appendices relating to data collection and analysis to support the findings in the article.

Typical availability
Spring semester, City campus

16261 Development Management
6cp
Requisite(s): 16231 Property Management
Undergraduate
This subject looks at aspects of the management of projects under development or undergoing major maintenance: client needs determination; procurement methods; design management including cost planning and buildability; and approvals management. It also covers the development of maintenance standards for and estimate of live components of buildings; maintenance budgets; and assessing the effects of design on maintenance and recording operating cycles of plant and equipment.

Typical availability
Autumn semester, City campus
Spring semester, City campus

16262 Honours Research 1
6cp
Through workshops and individual supervisor meetings, this subject takes students through the process of choosing a topic area, developing a specific set of research questions, and completing a literature review to set the groundwork for investigating the research questions. Workshops focus on establishing a rationale for research, developing aims and objectives based on research questions, library search skills, how to structure a literature review, and how to develop an endnote library of sources.

Typical availability
Autumn semester, City campus

16263 Design Team Management
6cp
Undergraduate
This subject examines management of design teams within multidisciplinary, cross-functional projects. It discusses theoretical models of the design process (including the question of sustainable design) and the practical aspects of design management, including brief formulation and management, value analysis, design team structure, planning and coordination, communication between design professionals, contractual management, management information systems and knowledge management. The use of Building Information Modelling (BIM) and other digital technologies to optimise design team collaboration and performance forms an integral thread through the subject. Core learning material is supplemented with case studies by specialist guest lecturers from various design disciplines.

Typical availability
Spring semester, City campus

16264 Accounting and Business Management
6cp
Undergraduate
This subject provides an introduction to accounting and business management principles and procedures with a focus on the financial structure and performance of construction/property entities. The subject incorporates the fundamental elements which drive a company from a financial perspective. Students learn how to interpret and analyse financial reports including the statements of financial performance and financial position, budgets and cash flows, to help assess the company's performance. Students also learn the principles of depreciation.

Typical availability
Autumn semester, City campus

16265 Construction Technology 2
6cp
Requisite(s): 16109 Construction Technology 1 OR 48340 Construction
Undergraduate
This subject examines construction technology for multi-residential, medium density residential buildings. Terminology and construction/design details for typical construction solutions are examined in detail for attached housing, walk up apartments and other medium residential types. The subject explores the main construction systems, processes and principles that construction managers should be familiar with for this type of construction. Students develop an understanding of relevant building regulations and compliance issues. The subject incorporates investigation of alternative construction techniques, materials handling and basic understanding of how services interface with the building.

Typical availability
Spring semester, City campus

16266 Sustainable Urban Design and Development
6cp, 2hpw [lecture], 1hpw x 5 weeks [tutorial]
This subject provides an introduction to the environmental impact of urban development and the roles and responsibilities that professionals in the built environment have in reducing environmental problems. The subject commences with an overview of the major global environmental problems and how the built environment has contributed to these problems. The principles of sustainable urban development, planning and design are then explored in conjunction with the roles that professionals in the built environment can play in achieving sustainability. This subject also provides the basis for understanding the processes that shape the built environment particularly in relation to the development and redevelopment of cities. Students are exposed to the history of the city and city development and a general understanding of the environmental and social impacts of urban development. It further shows how built environment professionals can play a more responsible role in resolving some of the current environmental challenges facing our cities. Examination of these issues is underpinned by analysis of contemporary case studies.

Typical availability
Spring semester, City campus

16267 Property Title and Spatial Data Analysis
6cp
Undergraduate
This subject examines the origin and nature of property title and tenure and the issues associated with the determination of the physical extent of property title. Maps, plans and digital information are used in computation and assessment of spatial information in the measure of land and elements of the built environment.

Typical availability
Spring semester, City campus

16307 Project Management Integration
6cp
Requisite(s): 16912 Site Management AND 16317 Risk and Safety Management AND 16913 Time and Quality Management AND 16207 Cost Management 3: Cost Planning
Undergraduate
This subject involves a Capstone Project that provides students with the opportunity to demonstrate and integrate the professional knowledge and skills that they have acquired through their course. Students work in groups to go through the process of procuring a project from inception to completion and also covering the commissioning and operational stages of the project. Students...
are expected to demonstrate a professional level of preparation, planning, execution, testing and documentation for the project and are expected to meet a number of strictly enforced milestones. They need to demonstrate proactive initiatives in overcoming problems associated with the project. The subject builds together the processes of project management as defined by the Project Management Body of Knowledge (PMBOK) and their interaction within a project life cycle. Project initiation is explored, including project purpose and justification, stakeholder-needs analysis, feasibility analysis, setting project objectives, development and evaluation of alternatives and project definition. Students then address the practical application of project planning, executing, controlling and closing processes. This incorporates the integration of project scope, time, cost, quality, risk, procurement and facilitating processes. Emphasis is placed on effective project teamwork and communication.

**Typical availability**
Spring semester, City campus

**16308 Services 2**
6cp  
Undergraduate  
This subject provides an introduction to hydraulic, security services and systems, intelligent buildings and an in-depth study on coordination, integration, installation and inspection of services, safety and access requirements.

**Typical availability**
Spring semester, City campus

**16313 Building Economics 2**
6cp  
Undergraduate  
This subject examines the financial and economic issues of relevance to the construction industry, including the application of industrial economics within the industry, the measurement of performance, forecasting techniques and the relationship between business and building cycles, and the process of structural change.

**Typical availability**
Autumn semester, City campus

**16314 Construction Technology 3**
6cp  
Requisites: 16206 Construction Technology 2 OR 16265 Construction Technology 2  
Undergraduate  
This subject examines construction technology for industrial buildings. Terminology and construction/design details for typical construction solutions for typical industrial buildings such as warehouses and factories are examined in detail. The subject commences with an examination of site sub-strata conditions and soil types and the use of geotechnical analyses to identify specific site conditions. The subject further explores the main structural principles that construction managers should be familiar with for this type of construction. This includes applied structural principles for steel framed construction. Building services technology (hydraulics, electrical and fire protection systems) are also covered. Students develop an understanding of relevant building regulations/codes and compliance issues. The subject incorporates investigation of alternative construction techniques and materials handling issues.

**Typical availability**
Spring semester, City campus

**16315 Structural Behaviour**
6cp  
Requisites: 16206 Structures  
Undergraduate  
This subject builds on the knowledge developed in 16206 Structural Appreciation by extending the principles developed for timber to the behaviour of concrete and steel structures. The interaction of concrete elements with foundation materials is also given more detailed consideration. Simple calculation techniques are used to illustrate the rationale behind various construction details and special emphasis is given to the structural behaviour of temporary structures.

**Typical availability**
Autumn semester, City campus

**16316 Building Company Performance**
6cp  
Undergraduate  
The objective of this subject is to provide students with a thorough understanding of the financial operations of companies and the factors that affect their financial performance. Students are acquainted with accounting principles, analysis of financial statements, methods of capital budgeting, and preparation of feasibility studies.

**Typical availability**
Spring semester, City campus

**16317 Risk and Safety Management**
6cp  
Requisites: 16912 Site Management  
Undergraduate  
This subject provides a framework for the management of occupational health and safety (OHS) and risk on construction projects. Safety is one of the most important issues on construction projects and there are stringent legal obligations placed on contractors and construction managers through OHS legislation and other legislation/codes of practice. These requirements are examined in detail as are concomitant workers compensation and insurance obligations. Management practices to ensure and maintain a safe working place throughout the course of a project are covered and students are presented with the many issues, challenges and problems that are faced in achieving this. Effective risk management practices are at the core of safety management and the integration of the two is investigated. The subject provides an overview of project risk management generally and the main theories of risk causation and implications for management. The techniques and methods used for risk identification, evaluation and response are examined in detail and contextualised to cover the risks typically faced by project stakeholders (including safety). Students are challenged to develop project risk management systems including methods of monitoring and controlling risks utilising risk software applications.

**Typical availability**
Spring semester, City campus

**16331 Specialised Valuation**
6cp  
Requisites: 16234 Valuation Methods AND 16123 Introduction to Property OR 16136 Introduction to the Built Environment OR 16468 Introduction to the Built Environment  
Undergraduate  
This subject involves an in-depth study relating to a diverse range of specialised property types and the underpinning factors which lead to the creation of value in the same. The subject also considers special purpose valuations relating to strata and community title, stratum subdivision, heritage property, financial reporting and plant and equipment.

**Typical availability**
Spring semester, City campus

**16332 Investment and Portfolio**
6cp  
Requisites: 16236 Property Cash Flow Analysis  
Undergraduate  
This subject is an in-depth study of the methods and techniques of investment and portfolio management, and a study of the asset allocation process and risk and return with an introduction to the techniques of investment and portfolio analysis.

**Typical availability**
Autumn semester, City campus
16333 Statutory Valuation and Litigation
6cp
Requisite(s): [16234 Valuation Methods AND 16231 Property Management AND 16123 Introduction to Property] OR [16136 Introduction to the Built Environment] OR [16468 Introduction to the Built Environment]
Undergraduate
This subject equips students to assess, prepare and defend statutory valuations used for land acquisition, rating and taxing and other court-related purposes including general litigation, family law and equity involving property. The subject is designed to cover the preparation of instructions, statements of evidence and the presentation and delivery of expert evidence.

Typical availability
Autumn semester, City campus

16335 Advanced Valuation
6cp; 2 x 1hpw (lectures) supported by direct modelling and online tutorials.
Requisite(s): [16234 Valuation Methods] AND [16236 Property Cash Flow Analysis]
Undergraduate
This capstone valuation subject is concerned with the application of contemporary theory to the analysis and appraisal of real-property investments, including the prediction of the most likely selling price in a carbon constrained post-GFC market, the investment worth, the real options, and the investment value to a prospective purchaser.

Typical availability
Autumn semester, City campus

16336 Property Title and Tenure
6cp
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject covers the origin and nature of property title and tenure and the issues associated with the determination of the physical extent of property title. Maps, plans and digital information are used for the computation and assessment of spatial information in the measure of land and elements of the built environment.

Typical availability
Autumn semester, City campus

16338 International Property Investment
6cp
There are also course requisites for this subject. See access conditions.
Undergraduate
Through the delivery of lectures, seminars and case studies, this subject analyses the factors that determine foreign real estate investment; examining the underlying factors that determine the level of such investment with particular focus on Australia and the Pacific region.

Typical availability
Spring semester, City campus

16342 Property Cycles and Forecasting
6cp
Undergraduate
This subject provides a study of the property market characteristics. It analyses the cyclical nature of property markets, key determinants and provides methods and techniques that can be applied to property market analysis.

Typical availability
Autumn semester, City campus

16343 Development Case Study
6cp
Undergraduate
This subject examines the processes of generic project management and their interaction within a generic project life cycle. Project initiation is explored, including project purpose and justification, stakeholder-needs analysis, setting project objectives, development and evaluation of alternatives and project definition. Project planning, executing, controlling and closing processes includes practical knowledge and application of the planning processes, such as scope, time, cost, quality, risk, procurement and facilitating processes, including project communication, organisational structures and influences.

Typical availability
Spring semester, City campus

16344 Property Markets
6cp
Undergraduate
This subject examines property market characteristics and assesses their impact on property prices. The analysis of the cyclical nature of property markets provides key determinants and methods of forecasting future property price movements. Key factors of demand, supply and regulatory impositions provide bases among others in the direction and impact on the various classes of property.

Typical availability
Autumn semester, City campus

16345 Property Trusts and Funds
6cp
Undergraduate
This subject examines Australia’s property trust and funds industry, analysing alternative investment structures, their benefits and weaknesses, performance, legal and taxation issues, methods of valuation, while contrasting with similar industry sectors in overseas markets.

Typical availability
Spring semester, City campus

16346 Moot Court
6cp
Requisite(s): [16333 Statutory Valuation and Litigation] AND [16234 Valuation Methods]
Undergraduate
The moot court case is a hypothetical scenario in which students work as a team in the preparation and presentation of a property-related case involving compulsory acquisition or rating and taxing. A scenario is provided in which students respond with a written report and present and argue their position before a panel, tribunal or court.

16412 Cost Management 4: Advanced Estimating
6cp
Requisite(s): [16207 Cost Management 3: Cost Planning]
Undergraduate
This subject covers advanced estimating and cost management techniques and procedures used by contractors. This includes bidding theories, tendering practices and cost monitoring, control and remedial action during the course of a project. The practical issues and problems faced by contractors in estimating project costs and securing

Access conditions are available in the individual subject descriptions in the online handbook.
work are examined in detail as are the strategies used by contractors to achieve competitive advantage. The subject also explores other decision-making techniques such as value management, cost benefit analysis and multi-criteria. The subject utilises contemporary software applications and explores leading edge industry practices such as electronic measurement, linking automated quantities to estimating databases/systems and the integration of the estimating process with building information modelling (BIM) systems.

**Typical availability**
Autumn semester, City campus

**16421 Construction Law and Professional Practice**
6cp
Requisites: 16108 Introduction to Law
Undergraduate
This subject is based on the tortious liability imposed by the law upon professionals, some major contractual problems related to the building industry and an outline of employment law and statutory industrial regulation. It also provides students with an understanding of the issues of professional responsibility and practice within the project management discipline, including issues of ethics.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**16422 Construction Technology 4**
6cp
Requisites: 16314 Construction Technology 3 Industrial
Undergraduate
This subject examines construction technology for multi-storey commercial buildings. It commences with an overview of the main methods/systems of high rise construction and materials handling and then examines the typical elements in high rise construction such as concrete framed structures, pre-stressed concrete construction, pre-fabricated construction (such as precast concrete), slip-form and jump-form construction and curtain walling. This is then extended to the internal fitout of high rise buildings. The subject explores the main structural principles and building services technology (hydraulics, electrical, mechanical, security, communication, fire protection and vertical transportation systems) that construction managers should be familiar with for this type of construction. The main building regulations and codes relevant to high rise construction are identified and addressed in detail and students explore issues and difficulties with ensuring compliance.

**Typical availability**
Spring semester, City campus

**16423 Procurement and Contract Management**
6cp
Requisites: 16467 Built Environment Law
Undergraduate
This subject examines the project procurement systems used in the construction industry and the principles and practices involved in the administration and management of construction contracts. The variety of methods used to procure construction projects are examined in detail. The subject examines common construction contracts used in the industry and explores typical contractual responsibilities and liabilities imposed by these contracts and the issues that emanate from these. Students are given exercises in examining and interpreting general conditions of contract and contractual risk allocation to strengthen their understanding. The subject then examines the principles and procedures of effective contractual claims management including preparation of variations, progress claims and time extension/delay cost claims. This is extended to include the administration and management of subcontract and supply agreements. Cost/time/quality monitoring, administration and control and cash flow forecasting and earned value analysis during the construction stage are then explored in detail. Students are then introduced to conflict management and dispute resolution as an integral part of the contract management role. The subject utilises contemporary software applications and explores leading edge industry practices such as web-based contract administration and the integration of contract administration and information flow with building information modelling (BIM) systems.

**Typical availability**
Spring semester, City campus

**16424 Construction MIS**
6cp
Undergraduate
This subject considers the emerging role of information technology in the design, procurement, construction and operation of construction projects. It looks at virtual project teams and the interconnections necessary to enable effective workflows. The subject also covers shared project models and the systems that support them, communication strategies, virtual projects, the use of CAD in realising virtual models, as well as the next generation of software tools and their likely application.

**Typical availability**
Spring semester, City campus

**16466 Built Environment Economics**
6cp
Undergraduate
This subject provides an introduction to the structure and performance of the Australian and international economies with a focus on the relationship with the construction and property industries. An introduction to macro and microeconomic theory and concepts and the structure and performance of the Australian and international economies provides a national and international perspective to this subject. The relationships between macroeconomics and the business environment and building cycles are covered through use of interactive examples and case studies. Economic issues and policies relevant to the Australian construction and property industry are covered as well as financial markets, institutions and instruments. Students also develop an understanding of the importance of market structure and the behaviour of firms.

**Typical availability**
Autumn semester, City campus

**16467 Built Environment Law**
6cp
Undergraduate
This subject provides students with an introduction to construction and property law for the built environment. The contractual, tortious and trade practices liabilities imposed on construction and property professionals are examined and case law examples are used to demonstrate the ramifications of failing to meet legal requirements on projects. Students are introduced to construction contracts and the key contractual provisions, liabilities and responsibilities imposed on parties to these contracts. Property law focuses on the transfer and acquisition of property, property titles, estates and interests in land. Agency, employment and insurance law are also addressed. The subject also provides students with a foundation in legal research and referencing.

**Typical availability**
Spring semester, City campus

**16468 Introduction to the Built Environment**
6cp
Undergraduate
This subject provides an introduction to the property market and valuation and the property development process in the built environment. The role and regulation of the various property development professionals are explored with a focus on the role of property valuers and developers, contractors, designers, engineers, project managers, construction managers, quantity surveyors and other project consultants. Students are given an overview of the nature and structure of the property/ construction industry and the main issues and challenges facing the industry. Property appraisal processes, including valuation methods and investment analyses, are covered at an introductory level. Students are introduced to the main forms of documentation used in the industry. The fundamentals of report writing, academic writing and professional communication are also incorporated in the subject.

**Typical availability**
Autumn semester, City campus

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**In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.**
16699 Professional Practice 6cp
Requisite(s): [(16123 Introduction to Property OR 16346 Introduction to the Built Environment) OR 16488 Introduction to the Built Environment] AND [(16470 Digital Design and Construction 1 OR 16930 Building Research 1)
Undergraduate
This subject defines the liabilities of design, construction and property professionals. Contractual problems, ethics and issues in the construction/property industry are examined through the use of legal case studies. Legal research, professional codes and conduct and ethical behaviour are a central focus of this subject. Social responsibility and professional ethics for design, construction and property professionals provide a well-rounded foundation for practice in these disciplines. Approaches to ethical thought, including historical and cultural precedents, provide an evolutionary perspective of this subject.
Typical availability
Spring semester, City campus

16470 Digital Design and Construction 2 6cp
Requisite(s): 16212 Digital Design and Construction 1 AND 16913 Time and Quality Management
Undergraduate
This subject examines the practical application of Building Information Modelling (BIM) technologies and processes for the development and delivery of construction projects. The role of the project manager, contractor and the design team in the development and use of building information models is explored in detail. This includes the effective management and control of information contained in discipline-specific 3D models, taking an in-depth look at tools and methods used during the pre-construction and construction phases for construction process planning. Students develop an in-depth understanding of 4D simulation of the planned construction process, visualisation and animation. The subject also examines the issues and problems that are inhibiting the widespread application of timelining and 4D simulation technologies in the industry. Students are presented with the future development of BIM technologies for construction. The impacts that these developments are having on industry are also discussed.
Typical availability
Autumn semester, City campus

16660 Honours Research Proposal 6cp
Undergraduate
This subject explores the principles and approaches for doing research and prepares the students to develop their Honours research proposal.
Typical availability
Autumn semester, City campus

16900 Construction for Developing Communities 6cp
Undergraduate
This subject offers students the opportunity to experience the process of the design and construction of residential or small scale developments in developing communities. It involves students in the planning and construction of residential or small buildings in disadvantaged communities either within or outside Australia. The subject is project based and includes instruction on both the customs and culture of the relevant community and the construction methods relevant to that community. The main focus of the subject is an on-site residential workshop where students participate in construction teams working on real community projects.
Typical availability
Autumn semester, City campus
Spring semester, City campus
Winter session, City campus

16904 Building Research 1 6cp
Undergraduate
This subject teaches students to identify and locate sources of building and construction information, and allows them to develop advanced research techniques. Topics covered include the implementation of electronic information retrieval techniques, library and Internet searching, accessing online databases and other resources, referencing skills and research methodology. Students are required to undertake a meaningful review of literature on a nominated topic related to the construction industry.
Typical availability
Autumn semester, City campus

16906 Thesis Construction Management 12cp
Requisite(s): 16904 Building Research 1 AND 16905 Building Research 2.
There are also course requisites for this subject. See access conditions.
Undergraduate
The Honours thesis subject requires students to prepare and submit a major dissertation, involving the detailed analysis, critique and write-up of an original investigation into a topic related to construction management, construction economics or project management. Students build on their previously completed literature review and expand that research through the analysis of original data collected in 16905 Building Research 2.

16910 Project Management 1 6cp
Requisite(s): 16123 Introduction to Property OR 16470 Digital Design and Construction 1 OR 16265 Construction Technology 2
Undergraduate
This subject introduces students to the discipline of construction project management, covering in brief the concepts of project integration, scope, time, cost, quality, human resources, communications, risk, and procurement management. Lectures are delivered in a generic manner with specific tutorials relating to the discipline of individual students.
Typical availability
Spring semester, City campus

16912 Site Management 6cp
weekly, on campus, 2hr lecture and tutorials supplemented by group work and online learning
Requisite(s): 16204 Construction Technology 2 OR 16265 Construction Technology 2
Undergraduate
This subject introduces students to the discipline of construction project management with a focus on the management of construction site activities and operations. The subject commences with an overview of the fundamentals of project management and the Project Management Body of Knowledge (PMBOK). This is then applied to the principles and procedures for construction site management. Areas covered include site planning, materials handling, quality management, occupational health and safety, industrial relations, subcontractor management, cost management, time management, human resource management and contract administration.
Typical availability
Autumn semester, City campus
16913 Time and Quality Management
6cp
Requisite(s): 16912 Site Management
Undergraduate
This subject examines time and quality management on construction projects. The subject commences with an overview of project planning, executing, controlling and closing processes and then examines construction programming and planning techniques in detail. This includes site planning, the development of work breakdown structures (WBS) and detailed resource and activity scheduling. Quality management systems and procedures are investigated and explored. Sub-contractor management forms an important thread through this subject as it is sub-contractors who carry out the vast majority of construction work. This includes attention to concepts such as quality control, quality assurance, total quality management and lean construction. The subject concludes with leading edge industry research and practices for productivity enhancement on projects such as BIM (Building Information Modeling) concepts, constructability studies, virtual construction and 4D simulation.

Typical availability
Spring semester, City campus

16914 Human Resources and Communications Management
6cp
Requisite(s): 16912 Site Management
Undergraduate
This subject explores the human side of construction project management. It commences with organisational theory and progresses to human resource strategies, personnel management, staff acquisition and performance management. This is then linked to effective client management and communication and the marketing of services to potential clients. Industrial relations on construction projects is then examined in detail. Project communications are extended to include the principles and practical application of effective negotiation and conflict management on projects. Students are guided through the development of a framework to effectively manage these areas.

Typical availability
Spring semester, City campus

16918 Risk Management
6cp
This subject examines risk management generally but with a focus on project risk management. It covers the main techniques and methods used for risk identification, evaluation and response and relates these to the risks typically faced by project participants. The subject presents risk management as a positive process that should be intertwined with the identification and realisation of opportunities. Risk identification involves the various risks inherent in projects such as financial risk, environmental risk, estimating risk, schedule risk and safety risk. Various methodologies are introduced for the qualitative and quantitative assessment of these risks. Risk response and treatment and issues such as risk sharing and transfer between clients and project participants are examined. Methods of monitoring and controlling risks are then explored. The subject culminates with the development of risk management plans for projects.

Typical availability
Spring semester, City campus

16919 Project Strategy and Leadership
6cp
This subject covers strategic approaches to construction project delivery and the leadership requirements for not only construction projects but the construction industry generally. The construction industry is increasingly facing social, economic and environmental challenges that require leaders that can inspire and affect real change. The subject explores the difference between management and leadership and examines how the ‘softer’ leadership skills such as strategic vision, communication skills, charisma, personality and business understanding can be integrated with project and business strategies to improve both project and business performance. This includes strategic approaches to negotiation and dispute resolution. The characteristics of major industry and world leaders are explored and analysed in terms of their applicability to the construction industry. The importance of cross-cultural skills in a global project environment is also covered. Students are introduced to the concept of organisational project management (OPM) which aligns project deliverables with strategy.

16920 Value Management
6cp
For subject description contact UTS: Design, Architecture and Building.

16921 Lean Construction
6cp
For subject description contact UTS: Design, Architecture and Building.

16991 Property Economic Issues
6cp
Undergraduate
This subject allows students to extend their breadth of knowledge and understanding of current and future major economic issues. The issues are viewed from a macro and micro perspective, i.e. from a national and property industry outlook. Issues examined during the course of the subject include key demographic changes; immigration; urban labour force; housing; urban transport; quality of life; privatisation; and globalisation.

Typical availability
Autumn semester, City campus
Spring semester, City campus

16992 Planning and Political Economy
6cp
Undergraduate
This subject includes an advanced study of the political economy of property with a focus on the relationship between planning, property value and national economic and social goals. Concepts including betterment, the common good and property are investigated with their ethical implications, and various resolutions of the problem of property are critically appraised.

Typical availability
Autumn semester, City campus

171200 Conservation and Heritage
6cp
Postgraduate
This subject is centred on the development of sites of heritage significance, including both statutory and strategic planning issues and practice, and alternative solutions and approaches to the development of historic buildings and precincts. It also covers the evaluation of the statutory and community processes involved in heritage issues.

Typical availability
Autumn semester, City campus

17121 Native Title
6cp
Postgraduate
Land rights history and the Mabo decision are the topics covered in this subject, as well as the Native Title Act 1993 and the Indigenous Land Fund, alternative approaches to land claims and management, and interface between stakeholders and current land management controls.

17122 Environmentally Sustainable Development
6cp
Postgraduate
Topics for detailed study are selected from the following: cultural, political and financial influences underpinning and guiding the built environment in relation to the ecology and sustainability. The subject covers effective planning and design processes and systems; historical and philosophical origins of the modern environmental movement; the history and nature of environmental legislation; the role of authorities and planning instruments in relation to environmental assessment and planning; sustainability and city planning; traffic, waste and water management; building design for sustainability; environmental economics; environmentally responsible
development and life cycle costs; environmental risk management; the environmental audit process; environmental management planning; and application to a real development project.

17123 Construction Contracts and Finance
6cp
For subject description, contact UTS: Design, Architecture and Building.

17518 Advanced Property Development
6cp
Requisite(s): 15142 Introduction to Property and Planning
Typical availability
This subject gives students a deeper knowledge of the development process, from conception to completion. It includes approval and feasibility analysis, the tender process, the day-to-day management of a development, the marketing of the project and examines the various property markets and cycles.

17519 Property Research Methods
6cp
Postgraduate
Research methods: students study the research process, research and questionnaire design, sampling, estimation and sample size, and their application to property situations.

17551 Property Market and Risk Analysis
6cp
Postgraduate
This subject provides a study of property markets and their characteristics. It analyses the structure and key determinants of property markets, provides an understanding of property cycles, and examines risk analysis techniques applicable to real estate market analysis.

17553 Construction Cost Planning
6cp
Postgraduate
This subject includes an examination of cost planning and cost management of development projects including budgeting, preliminary estimating, pricing of construction work, elemental cost planning and techniques for managing cost during design development and construction. It also considers costs-in-use, occupancy costs, functional costs analysis, and the nature of costs over time and the use of historical cost data for forward planning.

17554 Urban Simulation
6cp
Postgraduate
This subject introduces students to the tools needed and methods used to analyse and visualise spatial data. Particular emphasis is given to the analysis of large data-sets relevant to those in property development, urban economics and planning. Tools to which students are introduced change with technology, but currently include programs such as ArcGIS, MapInfo, Google Earth and AutoCAD.

17555 Complexity and Spatial Analysis
6cp
Postgraduate
This subject introduces students to the science of complex systems, with a specific focus on using that science to better understand cities and urban processes. Issues include: Are cities in equilibrium? Do cities change gradually and predictably? Do small changes to prices, infrastructure and resident/firm behaviour cause only small effects? The answer to these questions is assumed, implicitly, to be 'yes' by most classical economic and financial models. Recognising that cities are complex, far-from-equilibrium systems with components that interact at different spatial and temporal scales requires the adoption of a new set of mental tools.

17700 Planning and Environmental Law
6cp
Postgraduate
This subject covers the following topics: property development and statutory control processes, including both statutory and strategic planning issues and practice; alternative solutions and approaches to environmental issues and sustainable development; community consultation and dispute resolution; and communication of strategic advice to stakeholders on environmental issues.

17701 Environment and Control
6cp
Postgraduate
This subject covers sources and types of finance available for various property developments; debt versus equity; specialised financing techniques, including hybrids, long-term and offshore finance; project finance; and evaluation techniques and risk management.

17704 Property Development Finance
6cp
Requisite(s): 15142 Introduction to Property and Planning AND 12535 Valuation Application
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

17703 Property Taxation
6cp
Postgraduate
This subject involves the analysis of various forms of taxation relating to property holdings and property investment; income tax, capital gains tax, depreciation allowances, land tax and stamp duties; taxation of trusts; negative gearing and alternative forms of taxation and their likely impacts on the property industry.

17702 Property Research Methods
6cp
Postgraduate
Research methods: students study the research process, research and questionnaire design, sampling, estimation and sample size, and their application to property situations.

Access conditions are available in the individual subject descriptions in the online handbook.
17771 Valuation Methodology  
6cp  
Postgraduate  
In this subject, students study general accounting principles; capital budgeting techniques; discounted cash-flow analysis; risk analysis techniques; interest rate theory and discount rates; traditional and contemporary principles and methods of valuation, advanced capitalisation and other valuation methods; valuation of different classes of property; and sources of finance. A basic knowledge of a spreadsheet program such as Microsoft Excel is assumed. Students need to bring a financial calculator to class.

17772 Commercial Retail Property Management  
6cp; block  
Postgraduate  
The subject provides students with an in-depth understanding of property management principles, issues and processes and the lease administration of commercial and retail property. Property management plays an important role in all stages of a commercial performance, both prior to and after the disposal of the development. Property managers are responsible for generating and monitoring of income, and their role has evolved into a diverse and complex one that requires technical understanding of industry practices and the relevant legislation that govern it.

Typical availability  
Spring semester, City campus

17774 Green Building Evaluation  
6cp; block  
Postgraduate  
This subject gives students a deeper knowledge of sustainable development and its relationship to the built environment. It gives an understanding in the domain of green developments, commercial opportunities and political realities. The subject covers green rating tools and their impacts for the property industry both locally and internationally. Class exercises run in the computer lab working on the green rating tools. Green rating tools include BREEAM, SBTool, GreenStar, BASIX, LEED, etc.

Typical availability  
Spring semester, City campus

17775 Land Acquisition Statutory Valuation and Litigation  
6cp  
Requisite(s): 12535 Valuation Application  
Recommended studies: Introduction to Property and Planning 12142 and Valuation Application 15235  
Postgraduate  
This subject addresses the acquisition of land for economic development and the provision of infrastructure. It equips students with the ability to assess, prepare and defend statutory valuations used for land acquisition, rating and taxing purposes and statutory charges in the development process. The subject is designed to cover the preparation of instructions, statements of evidence and the presentation and delivery of expert evidence.

Typical availability  
Spring semester, City campus

17900 PhD Thesis: Built Environment  
0cp  
Further information on this subject is available from UTS: Design, Architecture and Building.

18723 Research Dissertation 1 (DAB)  
24cp  
For subject description, contact UTS: Design, Architecture and Building.

18724 Research Dissertation 2 (DAB)  
24cp  
Requisite(s): 18723 Research Dissertation 1 (DAB)  
There are also course requisites for this subject. See access conditions.  
For subject description, contact UTS: Design, Architecture and Building.

21008 Management Consulting  
6cp  
Postgraduate  
This subject introduces students to the nature and characteristics of the consulting industry and the value creation activities of management consultants. It then examines how management consultants conduct business analysis of enterprises, including assessment of business strategies, processes and systems. It considers methods of consultancy project design and management, and different performance measures. Finally, the subject takes a critical look at responsibilities and ethics of consultancy contract management including project costing, scheduling and reporting.

21011 Managing Consulting  
6cp  
Postgraduate  
Through the development of a client-based project, this subject examines the way management consultants analyse enterprises, including assessment of business strategies, processes, and systems. Through practice-based learning it provides opportunities to explore different approaches to business consulting, encompassing new business ventures, not-for-profit organisations, joint ventures and strategic alliances, mergers, and innovation in business models. It considers methods of consultancy, project design and management, and measures of success. Finally, the subject takes a critical look at the responsibilities and ethics of consultancy contract management including project costing, scheduling and reporting.

21012 Governance and Sustainability  
6cp  
Postgraduate  
The subject employs a stakeholder management perspective to analyse organisational strategies, values and operations that facilitate the development of sustainable, high-performing organisations, as well as enabling a balance between enterprise, society and the ecosphere. The subject focuses on how organisations develop a licence to operate and grow through their relations with employees, wider society and the natural environment, developing skills in critical analysis, risk evaluation and management, scenario planning and stakeholder dialogue.

21036 Managing Strategic Performance  
6cp  
Undergraduate  
This subject introduces students to the theory and practices utilised to manage the performance of employees in profit and not-for-profit organisations. It establishes the nature and function of the various components of a strategic performance management system and practices (such as 360 performance, pay-for-performance, etc.). It also exposes students to performance management skills and considers the future direction of strategic performance management.

21037 Managing Employee Relations  
6cp  
Undergraduate  
This subject introduces students to the challenges affecting the regulation of employment in a decentralised environment. It aims to help students understand the new legal and regulatory environment under which Australia operates. Students develop practical negotiation and advocacy skills required in employment relations. The employment relationship is studied in terms of the influence of social, economic, political and legal environment and the power resources of the key institutional parties and others who seek to influence employment.

21040 Advocacy and Social Change  
6cp  
Undergraduate  
This subject covers theories as they relate to advocacy and activism and engages students in a project to assist community organisations that have a need for developing advocacy and communication strategies and tactics by developing a tailored advocacy strategy. It locates activists through their shared experience and explores strategies for effective advocacy. To do this the subject covers topics such as community organisations and social and political change (including theories as they relate to civil society and collective action), the theory and practice of strategic communication for community organisations, advocacy strategies and campaigning (including examination of
case studies of successful campaigns), the relationship between government funding and capacity to advocate, the relationship between individual and systemic advocacy, and institutional and non-institutional forms of advocacy in the indigenous rights movement.

21041 Australian Indigenous Social and Political Development
6cp; block (3 x one-day sessions)
Undergraduate
This subject assists students to develop and review their understanding of Australian Indigenous culture and society in the context of social and political developments.

21042 Australian Indigenous Studies Research Project
6cp; block (3 x one-day sessions)
Undergraduate
This subject provides an opportunity for students to carry out a major project in Aboriginal studies under the supervision of a member of academic staff, either in groups or individually. Students negotiate the project through a learning contract.

21043 Australian Indigenous Studies
6cp; block (3 x one-day sessions)
Undergraduate
This subject assists students to identify, learn and develop strategies for understanding Australian Indigenous cultures and communities in order to enhance and support professional conduct and service in community management and development settings. It introduces participants to Australian Indigenous culture and business; and shows how Australian Indigenous cultures are represented in response to market demands with a comparative analysis of the response by Indigenous organisations and enterprise to culture, business and enterprise development.

21044 Strategic Management of Nonprofit Organisations
6cp
The subject description is available from UTS: Business.

21045 Career Development in Indigenous Community Management
6cp
This subject helps students review their learning, and plan career paths both for themselves and for people they manage or supervise. This is an important subject; career paths in the community sector are often unclear and overlooked as they cross over sector boundaries within the government and business sectors. The subject provides the theoretical and practical frameworks for students to integrate their credentialed and uncredentialed learning into a cohesive portfolio that positions them optimally for career choices in the sector. It enables them to identify gaps in their repertoire of knowledge and skills, gaps that can be addressed through career planning.

21058 Management Project
6cp
Undergraduate
This subject provides students who have undertaken the Management major and a sub-major in Employment Relations, International Management, Strategic Management or Small and Medium Enterprise Management with the opportunity to apply the knowledge and skills acquired in these subjects to a management research project in the area of their sub-major specialisation. It further develops understanding of management research methodologies and provides the necessary skills to design, conduct and report on the project both orally and in writing.

21082 Small and Medium Enterprise Management
6cp
Undergraduate
This subject creates knowledge and analytical skills through applied research and involvement in the process of managing a small and medium enterprise venture in the contemporary business environment. Students collaborate with selected industry practitioners on an industry-based research project. This enables students to acquire the basic competencies necessary for entry into a career in new venture/small and medium business management. Students learn to appreciate the major ingredients in small and medium enterprise success, and the special problems small and medium enterprises may encounter.

21126 Capstone Project in Business Planning
6cp
Undergraduate
This is a core subject in the ‘Innovation’ degrees and provides a linking function to the four Technology Innovation and Science Specialisations. It draws together the two key themes of innovation and entrepreneurship as they are developed and practiced within the respective specialisations. It provides an applied context for integrating business and disciplinary skills and competencies in the creation, initiation, implementation and operation of a range of science, bio-engineering, engineering, and information technology-related business innovations. Students work in small teams located in situ with host companies to produce a business plan for the commercialisation of a scientific or technical idea or venture, which is assessed by experts in the respective fields of application. Students develop innovative, entrepreneurial, communicative and interpersonal skills in obtaining expert advice from scientists, engineers, designers, business people and venture-capitalists in the development of their business plans.

21129 Managing People and Organisations
6cp
Requisite(s): 26100c Integrating Business Perspectives
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces students to the fundamentals of management and organisational behaviour in the context of today’s contemporary global business environment. It examines the major theories and models in areas of communication, group dynamics, individual behaviour and motivation, decision-making, leadership, power and politics, and ethics and social responsibility. It places particular emphasis on the application of theory to dilemmas and issues likely to confront managers today and in the future.

21134 Introduction to Community Management
6cp
Undergraduate
This subject introduces the basic features of non-profit organisations, and develops a foundation for students to develop skills in effectively organising and managing aspects of a non-profit organisation. It examines the requirements of establishing an organisation, the principles underlying the voluntary management structure of non-profit organisations, the range of types of non-profits, and their relationship to the community.

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/11/6RHg5CqvqWy
- Academic video: www.youtube.com/user/utschannel#p/u/21/3heHFnTfc

21136 Resource Management in Nonprofit Organisations
6cp
The subject description is available from UTS: Business.

21140 Monitoring Organisational Performance
6cp
Undergraduate
This subject assists students in developing competence in monitoring organisational performance on a number of levels. It incorporates a critical analysis of current theories of organisational performance, examining the difficulties of measuring the performance of organisations providing human services, the tools and technologies for evaluating and improving the performance of non-profit organisations, and the use of evaluation data for performance improvement.
21143 Current Issues in the Community Sector
6cp
Undergraduate
This subject provides an opportunity for students to keep up-to-date with current issues, and to apply the theoretical frameworks already gained to systemic problems and concerns. Through regular seminars, students explore the social, political and economic issues affecting the operation of community organisations.

21183 Funds Development
6cp
Undergraduate
This subject introduces the variety of revenue sources utilised by third-sector organisations and the variety of methods that are used to tap these resources. Particular attention is given to fundraising from individuals and corporations, but the emphasis is on effectively managing a whole variety of funding resources.

21184 Government and Community Sector
6cp
Undergraduate
This subject familiarises students with the ways governments operate, and relations between community organisations and governments are constructed and conducted.

21185 Social Change and Community Practice
6cp
Undergraduate
This subject critically appraises the contributions that community organisations and their programs and activities make to personal and societal transformation in the current social, political, and economic context. The connection of principles drawn from social and political theory to the practice of community organisations is discussed. Students explore these links, and develop specific skills in the organisational practice of strategic planning and program development as they undertake individual and group projects.

21189 Community Sector Project 2
6cp
Undergraduate
This subject enables students to undertake exploratory or applied projects focusing on particular industry problems or issues. It extends students’ capacity to apply their accumulated knowledge and skills to addressing industry issues that impact on the workplace, drawing on experience that students have already gained in the industry and the skills they have developed during the course. The projects involve the researching and analysis of an environmental factor that impacts on community organisations, the development and implementation of a strategy to address the issues, and an evaluation of the impact of the strategy. The projects are designed and proposed by the student, and subject to negotiation with and approval by the subject coordinator. Each subject requires a different project proposal. Students are required to demonstrate the relevance of the project to their own learning, to the workplace and to the industry generally. In some circumstances, students may gain approval to draw on major projects that they have already carried out.

21211 Indigenous Community Organisation Practicum
6cp
Undergraduate
This subject provides an opportunity for students to apply previous learning in the course in the context of a specific indigenous community organisation different from that in which they work or are involved. Through designing, organising and participating in an observational placement within an indigenous community organisation, students are exposed to the specific organisational, social, political, economic and cultural issues affecting the operation of that organisation. Students are required to identify a particular area of community organisation practice as the focus of their placement based on previous work completed in the course and prepare a report and presentation in order to share their observations and insights with other students in the subject.

21221 Organisational Structure and Change
6cp
Requisites: 21129 Managing People and Organisations OR 22157 Australian Corporate Environment OR 48260 Engineering Project Management OR 16910 Project Management
Undergraduate
These subjects may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

21223 Social Analysis and Indigenous Community Organisations
6cp
Undergraduate
This subject introduces a conceptual framework for examining the historical and current social context of policy development in regards to Indigenous people in Australia. It explores the role of Indigenous organisations in responding to social policy.

Typical availability
Autumn semester, City campus

21224 Indigenous Community Research
6cp
Undergraduate
This subject provides a foundation in basic research and evaluation skills as they can be applied in Indigenous community organisations. It introduces students to basic research skills which they may be able to use in a variety of ways, such as carrying out a community needs analysis, evaluating the performance of their organisation, conducting action research, assessing the community’s response to the service, and undertaking research into community issues. Students are encouraged to evaluate and modify techniques for use in Indigenous communities.

21225 Managing Human Resources in Indigenous Organisations
6cp
Undergraduate
This subject introduces the basic principles of personnel management and industrial relations and explores their applicability and application in Indigenous organisations. It explores the unique features of community management and the roles and personnel practices in relation to paid staff and volunteers. It examines recruitment, selection, staff development principles, industrial conditions and resolving industrial disputes.

21226 Sustainable Enterprise
6cp
Undergraduate
This subject considers one of the most pressing issues for business in the 21st century: the increasing importance of civic governance and the rising awareness of the earth’s limits. The subject critically analyses and examines the social and ecological assumptions that underpin commercial activities in contemporary society and reviews the current global performance of business in terms of human and ecological sustainability. The subject provides students with opportunities to expand their personal horizons and develop understanding of both aspects of sustainability. There is an introduction to how the sustainable enterprise might operate at three different levels: individual, organisational and societal. A number of different frameworks for considering sustainability are introduced and students are given a range of practical methods for improving corporate performance and measurement in the three key areas of economic, social and ecological reform.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
**21227 Innovation and Entrepreneurship**

6cp  
Undergraduate  
The aim of this conceptual and decision-making subject is to provide students with the competencies and skills necessary for understanding, implementing and then managing the entrepreneurial innovation process within a highly competitive global environment. Entrepreneurship/intrapreneurship is more than the mere creation of a new business. Seeking opportunity, taking risks and having the tenacity to push ideas into reality are special characteristics that permeate entrepreneurial individuals. Entrepreneurship is an integrated concept that has revolutionised the way business is conducted. Students are required to study how winning entrepreneurs think, act and perform.

**Typical availability**
Autumn semester, Kuring-gai campus  
Spring semester, Kuring-gai campus

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**21228 Management Consulting**

6cp  
Undergraduate  
This subject introduces students to the nature and characteristics of the consulting industry, major practice areas in consulting and the value creation activities of management consultants. It discusses the main success factors of consulting. It also considers methods of consultancy project design and management, and integrative problem-solving applying the principles of design thinking and different performance measures. Finally, the subject takes a critical look at the responsibilities and ethics of consultancy contract management. Note: This subject requires students to have completed the majority of their subjects and it should be taken towards the end of their degrees.

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**21229 Management Knowledge**

6cp  
Undergraduate  
The basis for the global momentum of implementing knowledge management is the need to understand the real value of knowledge, to create new management philosophies, standards and practices and to establish new models of success. The subject examines the movement away from the traditional paradigm of hoarding knowledge to a structured approach, which creates the incentive for sharing knowledge and establishes a knowledge management framework. Students are introduced to management initiatives of implementation, technology strategies, planning organisational transformation and a general understanding of the future environment for managing knowledge within the organisation.

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**21407 Strategic Human Resource Management**

6cp  
Undergraduate  
This subject focuses on the strategic nature of human resource management (HRM) functions within various organisations and builds on general issues first raised in 21306 Employment Relations in the Global Context. It develops an appreciation of critical HRM issues through an exploration of conceptual issues such as alternative ways of viewing the HRM field, how HRM should relate to changes in the organisational environment, and the relationships between organisation strategy and HRM functions. The underlying concept considered in this subject is how an organisation in a changing environment can best manage its human resources in such a way as to provide long-term benefits to the organisation.

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**21491 Cross Cultural Management**

6cp  
Undergraduate  
This subject provides students with the knowledge and skills necessary to identify and evaluate the role of culture in work organisations. It aims to develop interpersonal awareness and organisational effectiveness in the global context through a critical evaluation of mainstream and emerging models of national culture. There is a strong emphasis on real life cases, students learn to identify the role of culture in determining organisational strategy, structure, communication, motivation and leadership. To successfully manage an organisation in a culturally diverse society or to be part of a global organisation, an understanding of the differences in social code, communication, motivation systems, organisational structure and leadership is needed. Business is increasingly competitive, and competing in the 21st century requires a global orientation to sustain economic advantage. Use of the internet now can place business anywhere in the world. Hence an assessment of the risks that include financial, political, economic, environmental and now cultural factors are gaining increasing importance in the global context. Culture determines how one builds trust, communicates, balances risk, negotiates, motivates and leads. Knowing the cultural sensitivities for each country a business can gain profitability, and without cultural intelligence lose spectacularly.

This subject provides a foundation for cross-cultural management and looks at various models of culture including Hofstede’s Value Dimensions, Project GLOBE Cultural Dimensions, Trompenaars’s Value Dimensions, and Cultural Clusters.

**Typical availability**
Shanghai, China

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**21504 Management Capstone**

6cp  
Requisite(s): 21440 Management Skills AND 2 Subjects from 21510, 21511, 21591, 21227, 21228, 21595, 21602, 21555 AND 21512

Understanding Organisations: Theory and Practice  
These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

This subject is regarded as a crowning achievement and consolidates the knowledge that has been learnt in the major as well as integrates the core disciplines in a holistic manner. The subject provides students with opportunities to apply the knowledge and skills developed before and during their final year of undergraduate study. Students gain transferable skills with research application including presentation, research process and team-working skills. Students produce submissions to relevant authorities, professional bodies and the wider academic community through a formal presentation. The subject engages students in ethical and sustainability issues at the same time giving them experience of some of the practical aspects of management, highlighting how various business disciplines contribute to their professional knowledge.

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**21505 Human Resource Management (Capstone)**

6cp  
Requisite(s): 21555 Human Resource Management OR 21440 Management Skills OR 2 Subjects from 21510, 21512, 21511, 21440, 21513, 21504

These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

The subject provides students with opportunities to apply their knowledge and skills developed prior to and during their final year of undergraduate study. Using a project learning approach, students are required to work with an industry client on a project that mirrors the workplace environment. Although students generally work in groups, individual performance is also assessed taking into account the quality of the product produced, the depth of content understanding demonstrated, and the contributions made to the ongoing process of project completion.
21506 International Business Capstone
6cp
Requisites: 21511 Global Operations and Supply Chain Management OR 21510 The Global Context of Management OR 2 Subjects from 21591, 22240, 24220, 21440, 25304, 22309.
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject aims to develop and extend students’ international business skills and in-depth knowledge associated with developing and managing practical research projects. The projects provide students with opportunities to apply the knowledge and skills developed before and during their final year of undergraduate study. The nature of research projects varies from semester to semester; however, projects are intended to help students consolidate and integrate knowledge that has been learnt during the international business major, as well as to develop practical experience in conceptualising, managing and delivering applied research projects. Among the transferable skills that students are asked to demonstrate are information and critical literacy, project management, teamwork, and reflective practice.

21510 The Global Context of Management
6cp
As a core subject in the management, human resource management and international business majors, this subject is designed to give students a broad overview of the complexity of the global business environment. Students gain an understanding of how the global context of the business environment impacts upon managerial processes. Understanding business in context engages students to appreciate the interrelationships between global business and the environmental, social, technical, legal and regulatory frameworks that influence business operations. Students are encouraged to explore examples of the ethical dilemmas managers encounter operating within this context through problem-based learning activities where they develop essential global management capabilities.

21511 Global Operations and Supply Chain Management
6cp
This subject builds on the business knowledge taught in the core subject Integrating Business Perspectives and provides students studying in the Management, Human Resource Management and International Business majors with an opportunity to develop their understanding of sustainable business operations and global supply chain management from a systems perspective. Through a blended process of experiential, engaging and reflective learning, this subject further assures problem-based learning skills, added with the ability to manage the development of higher order capabilities for addressing complex operational issues in a real business context.

21512 Understanding Organisations: Theory and Practice
6cp
This subject considers what is theory and what is theorising in the specific context of organisations and organisation theory. It covers both mainstream classical business theorising and some alternatives. This examination should lead to an understanding that theory and organisational reality interact, influencing and shaping each other. It then follows that the practising manager is informed by theory when defining issues, sense making and choosing practical action.

21513 Business Ethics and Sustainability
6cp
Business Ethics and Sustainability explores the breadth and depth of ethical issues confronting contemporary organisations. It examines major philosophical conceptualisations of ethics and applies these to critically analyse both theory and practice. It places particular emphasis upon developing students’ ethical vocabulary and ethical argumentation so that they are better equipped to successfully carry an ethnically informed subjectivity into their organisational practice.

21532 Applied International Business
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This capstone subject applies knowledge gained from the study of prerequisite subjects to the examination of contemporary issues facing international business. Students develop skills in researching current issues and assessing how they affect multinational businesses. Students also develop an understanding of the complexity of international operations and how firms have responded to this complexity. The interrelated and multifaceted nature of challenges facing multinationals is stressed. Current organisational problems are used as a basis for discussion and teaching, and students develop an appreciation of the evolving international environment and how it may affect corporations. Students also gain experience in written and oral presentations.

Typical availability
Autumn semester, City campus
Spring semester, City campus

21555 Human Resource Management
6cp
Undergraduate
This subject introduces students to the theory and practices utilised to manage an organisation’s human resources. It establishes the nature and function of the various components of typical human resource management (HRM) practices, and exposes students to the skills of HRM through the use of structured exercises. It also considers the future direction and strategic application of HRM within Australia and overseas.

21591 Transnational Management
6cp
Undergraduate
This subject examines the management challenges associated with the strategic and operational management of organisations whose activities stretch across national boundaries. It develops a conceptual framework which enables students to understand the interplay between the multinational corporation, the country in which it does business, including an understanding of the psychological, social, political and economic forces useful for managers and consultants involved in multinational organisations and cross-border management. Through theory, cases, readings and research articles, the subject considers approaches to the development of strategy, organisational capabilities, and management challenges for operating in the global economy. It provides comprehensive understanding of managerial processes such as, cultural diversity, the entrepreneurial process (identifying and acting on new opportunities), the integrative learning process (linking and leveraging those pockets of entrepreneurial initiative), and the leadership process (articulating a vision and inspiring others to follow).

21595 International Management Field Study
6cp
This subject enables students to undertake a focused overseas study tour. Students join other students in studying the business, management and cultural practices of a selected country. They gain exposure to the various business and international management theories that have been studied in their course. The subject involves pre-departure briefings and lessons, as well as a mixture of in-country activities that may include visits to businesses, talks by business leaders and trade officials, tours of culturally significant venues, and/or time to explore freely.
Feedback from previous students suggests that they have found the subject personally rewarding because, in the course of experiencing business, culture and travel in a foreign country, individuals discover capacities for leadership, collaborative support, and problem solving in themselves that might not emerge in a classroom.
This subject involves overseas travel and students taking this subject incur travel costs, which are in addition to the normal study fee. The faculty endeavour to keep travel costs as low as possible by negotiating group rates with airlines, hotels and other providers. To ensure the affordability of the study tour, it is only run if a sufficient number of students enrol and commit to the subject.

21602 Strategy: Theory and Practice
6cp
This subject, incorporating extensive case studies, offers an intellectually rigorous exploration of strategic theory and practice. Drawing on established disciplines such as sociology, economics and other social science disciplines, the subject takes an encompassing critical knowledge-interrogating view of the strategy literature. Students are required to engage with political, ethical and sustainability issues that the next generation of managers are likely to encounter.

21630 Global Strategic Management
6cp
Requisite(s): 21511 Global Operations and Supply Chain Management AND 21510 The Global Context of Management
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject explores how managers influence strategy processes and can effect valuable changes in organisational activities. On completion, students are able to demonstrate an ability to critically analyse strategy processes and understand how these processes can be influenced. Through the medium of class discussion, reflective journal and case history analysis, students test their levels of conceptual abilities and understanding of contemporary business practice.

21702 Industrial Relations
6cp
Postgraduate
This subject provides an in-depth knowledge of the institutions, processes and contemporary forces relevant to understanding industrial relations in Australia and in other national contexts. The contemporary pressures upon industrial relations and the major legislation affecting the workplace are discussed and analysed. The practical skills required to effectively handle industrial relations are also covered, particularly those relating to grievance procedures, negotiations and advocacy.

21715 Strategic Management
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject adopts a holistic strategic approach to the design of innovative business models and the development of integrative processes that promote competitive superiority. This capstone subject integrates and builds on the materials previously studied in the core subjects of the MBA. The aim of the subject is to provide the student with the knowledge and skills necessary for designing and managing strategy processes that can assure the long-term viability and success for enterprises that operate in a highly competitive business environment. The strategy literature supports the adoption of a more creative, strategic and flexible approach to the design of business models. Students are encouraged to design innovative business solutions and develop new problem solving rationales for the formulation of flexible strategies. The students should then be able to understand, communicate and materially contribute to the purpose of an organisation.

21717 International Management
6cp
Postgraduate
This subject encourages participants to: study how people in other countries go about conducting business and managing their enterprises; ascertain the reasons behind their various management practices; assess their effectiveness; and determine the implications for Australian managers. The subject helps develop an integrated world view to provide a better basis for decision-making within the international business arena.

21720 Human Resource Management
6cp
Postgraduate
This subject presents an introduction to the field of human resource management (HRM). Topics covered include historical steps in the development of the human resource function and the forces that have shaped its development; the role and importance of strategic HRM; ethical considerations in HRM and contribution to good corporate governance; implications of HRM policies and procedures for human and other forms of sustainability; the importance of effective HR information systems; the contribution of various HR functions such as job analysis and design, recruitment, selection, remuneration management, performance management and appraisal as well as training and development; the role of key stakeholders including government, industrial tribunals and associations; forms of regulation and entitlements including legislation, awards and agreements; handling workplace grievances and performance problems; managing diversity and EEO.

Note(s)
Before Autumn semester 2004, this subject was called Employment Relations.

21722 Leadership, Coaching and Mentoring
6cp
Requisite(s): 21813 Managing People OR 21867 Managing People: Concepts and Applications OR 21844 Managing Work and People
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject emphasises understanding the role of the manager as leader, decision maker and change agent. Topics include the manager's role; transformational/transactional leadership; rational and incremental decision-making; decision-making alternative strategies; situational characteristics of decision-making; creativity and problem solving; transactional analysis; the rational-emotive approach; the Gestalt approach; and dealing with interpersonal conflict.

Note(s)
Before Autumn semester 2004, this subject was called Leadership and Management Action.

21724 Strategic Human Resource Management
6cp
Requisite(s): 21720 Human Resource Management
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops the ability to locate, critically analyse and explain the relevance of the recent literature in key areas of Human Resource Management (HRM). It emphasises strategic models of HRM, and the links between HRM and recent trends in management theory and practice.

Note(s)
Before Autumn semester 2004, this subject was called Human Resource Management.
21725 Organisation Development
6cp
Postgraduate
This subject develops an understanding of strategies, methodologies, and intervention techniques and skills in managing planned or adaptive organisational change. It consists of two components: a knowledge component and a skills component. The former is presented through normal lecture discussions. The skills component is covered through group involvement in an ongoing or potential organisational change problem, through which a group acts as a team of change agents. The results of their efforts are presented in a two-day non-residential workshop at the end of the semester.

Note(s)
Before Autumn semester 2004, this subject was called Organisational Change and Adaptation.

21741 Managing Operations
6cp
Postgraduate
Operations management is about the way organisations produce goods and services. Everything we buy, eat, read and wear has to be produced. Every service we receive from hospitals, banks, local government, the local cinema, etc., has to be produced. This subject provides a broad introduction to planning, design, implementation and improvement of operations. Topics covered include operations strategy, various approaches to operations planning and control, quality management, performance measurement, supply chain management, and operations improvement. Teaching methods include case studies and a hands-on simulation exercise.

Note(s)
Before Autumn semester 2011, this subject was called Value Chain Management.
Before Autumn semester 2004, this subject was called Operations Management.

21742 Quantitative Management
6cp
Postgraduate
This subject provides an introduction to the application of operations research and mathematical modelling techniques to the solution of business problems. The practical application of the various techniques is stressed. Hands-on experience is gained through the use of computer software packages. Topics covered include a revision of basic statistics; project management (CPM /PERT); decision models; simulation techniques; linear programming; statistical quality control; game theory; and inventory management.

21743 Business Excellence
6cp
Postgraduate
This subject develops an understanding of the practical and managerial aspects of quality, including the fundamentals of total quality management and its relationship to productivity and organisational performance. Topics include the fundamentals of quality, productivity, and organisational performance; total quality management; traditional concepts and modern definitions of quality; quality management tools and techniques; quality standards; and performance measurement.

Note(s)
Before Autumn semester 2004, this subject was called Quality Management Systems.

21751 Management Research Methods
6cp
Postgraduate
This subject contributes to the students' vocational and professional attributes by providing a foundation in the analytic and research skills that can be applied to the solution of problems encountered in their professional lives. It develops expertise in research design and methods needed to effectively conduct both academic and applied management research. Topics include survey research, experiments and quasi-experiments, case studies, content analysis, interviews and focus groups.

21758 Strategic Governance and the Business of Government
6cp
Postgraduate
This subject draws from strategic management models for the public, private and non-profit sectors and the previous studies of students. It helps students to develop a capacity for ‘big picture’ analysis, planning and implementation of strategy.

21759 Strategic Issues in Community Management
6cp
Requisite(s): 21766 Managing Community Organisations OR 21767 Not-for-Profit Sector Theory and Context
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to strategic management in community (non-profit) organisations and provides the opportunity for students to reflect on, extend, and integrate their knowledge of community management gained from preceding subjects in the course. It also explores critical issues currently impacting on the sector, and appropriate strategic responses to those issues and encourages a strategic perspective on the management of organisations and an ability to apply that perspective within community organisations.

21760 Performance and Talent Management
6cp
Requisite(s): 21720 Human Resource Management OR 21866 Human Resource Management: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the role and nature of performance management systems in contemporary organisations. The needs and expectations of both organisations and individuals are explored and the sources of performance difficulties identified. The business requirement to align individual and organisational goals is examined and the implications for each stage of the human resource management process is analysed. Approaches to performance management and enhancement are examined and critically evaluated. The subject examines the roles of HRM specialists, line managers and individual employees/contractors in identifying essential job functions and relating them to the organisation’s goals, developing appropriate performance standards, providing needed feedback about performance, developing and enhancing performance as well as dealing with performance problems.

21766 Managing Community Organisations
6cp
Postgraduate
This subject provides an introduction to the field of community management. It develops a critical appreciation of management practices and organisational forms within the community sector; evaluates the application of different models of management, and explores key issues such as governance and accountability.
21767 Not-for-Profit Sector Theory and Context  
6cp  
Postgraduate  
This subject introduces some of the ways of thinking about the third sector and the community sector within it. Students study a growing body of knowledge about the third sector, its origins, dimensions and contribution to society, the economy and polity of Australia and selected other countries. It also introduces ways of thinking about the dynamic interaction between third sector organisations and the social, economic and political systems in which they are embedded.

21769 Human Resources in the Third Sector  
6cp  
Postgraduate  
This subject examines the prerequisites of good management, i.e. the management of basic human and material resources. It focuses on those features and issues of human resource management (HRM) that are distinctive of community or non-profit organisations, including the nature of the labour market, the use of volunteers, and the issues of leadership, control, and best practice.

21778 Resource Mobilisation  
6cp  
Postgraduate  
This subject introduces the variety of revenue sources utilised by third sector organisations and the variety of methods that are used to tap these resources. Particular attention is given to fund raising from individuals and companies, but the major emphasis is on effectively managing and developing the variety of revenue sources in the context of the organisation's environment and in accord with the organisation's mission.

21779 Management Skills  
6cp  
Postgraduate  
In this subject, students develop insight into the interpersonal skill requirements of managers and establish a basis for the future development of skills. This subject deals experientially with the interpersonal skills needed by managers to lead teams successfully and takes the individual's awareness of his or her skills and interpersonal style as its starting point. It goes on to examine basic communication skills such as listening, counselling and non-verbal behaviour. It deals with applied skills including interviewing, time management, goal setting, delegation, group facilitation and meetings management, decision-making, conflict management and negotiation, and organisational communication.

21781 Social and Community Research  
6cp  
Requisite(s): 21766 Managing Community Organisations AND 21767 Not-for-Profit Sector Theory and Context  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
This subject introduces the theory and methods of social research as applied within the community sector. It explores research as a problem-solving and political tool, critically examines both quantitative and qualitative research methods, and introduces the basis of statistical analysis (using SPSS). It provides a basis of understanding for those who manage or use research projects, and provides a necessary basis for those undertaking their own research.

21785 Research Techniques in Management  
6cp  
Postgraduate  
This subject provides research students with the knowledge and skills to make critical methods and design choices in business research. It reviews the common problems in making choices and reviews the costs and benefits of various options available to business researchers. It also applies students' existing knowledge of disciplinary theories, research methods and statistics to solving research design issues and writing.

21786 Research Seminars in Management  
0cp  
Postgraduate  
This subject provides a forum each semester for students to present an update on their research efforts and review the work of others.

21792 Research Project (Public/Community)  
6cp  
Requisite(s): 21781 Social and Community Research  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
In this subject, students apply their knowledge and research skills to the in-depth study of a specific topic. This occurs through a search of the literature, and either an applied consultancy project, or a small-scale empirical research project. A research report is produced which reviews the topic, presents the findings and evaluates the implications of those findings.

21797 Strategic Supply Chain Management  
6cp  
Postgraduate  
Strategic supply chain management introduces a dynamic, revitalised organisation function presently enjoying a worldwide revival as a key element of competitive advantage. This subject introduces a range of sophisticated concepts of purchasing and materials management. Relevant to the private, public or non-profit sectors, this subject covers a wide range of supply chain management activities including formation and management of strategic alliances, buyer selection and management, global sourcing, ethics in contracting situations and applications of information technology in supply chain management.

Note(s)  
Before Autumn semester 2004, this subject was called Managing the Supply Chain.

21800 Management and Organisations  
6cp  
Requisite(s): 21878c Organisational Dialogue: Theory and Practice  
These requisites may not apply to students in certain courses. See access conditions.  
Postgraduate  
This subject develops students' understanding of the nature of organisations and the role of managers within them. The implications of internal organisational factors and external forces for effective management are examined. Management theories are explored and applied to practical contemporary situations.

21811 Global Strategic Management  
6cp  
Postgraduate  
This subject provides an understanding of the contemporary international business environment and how business can formulate appropriate organisational strategies. A variety of strategic options available to organisations is explored. Emphasis is placed on the inevitability of changes in the global environment and on the need for strategic management in this changing environment in Asia, Europe and the United States.

21814 Management Project Design  
6cp  
Requisite(s): 21751 Management Research Methods  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
This subject further develops knowledge and skills in management research. Specific content is determined by the student and his or her supervisor in relation to the specific project topic. The major emphasis is on defining the topic; locating the relevant literature; analysing this literature and integrating it with relevant issues; formulating conclusions and implications arising from the literature review; designing a study to explore these implications; and preparing a report.
21815 Management Project
6cp
Postgraduate
This subject aims to develop research skills through the design and conduct of a focused management project. With guidance from a supervisor, students develop appropriate research questions for their project, conduct a literature review, design a research methodology, collect and analyse data, and present the research in a report. The selection of the project topic enables students to increase their knowledge in their area of specialisation.

21817 Volunteer Management
6cp
Postgraduate
The level of volunteering in a society is a sign of its well being, and third sector organisations are the main beneficiaries of volunteering. This subject provides students with a comprehensive introduction to the social phenomena of volunteering and the use of volunteers by third sector and public organisations. This is an elective subject and is taught only if sufficient interest is expressed.

21827 Change Management
6cp
Postgraduate
This subject provides managers with a framework for rethinking their past change management experiences, and for gaining a critical appreciation of future change management practices. It takes students through four aspects of change management: leading change; managing individual experiences of change; conceptualising the need for change; and critiquing specific change management programs.

21832 Managing for Sustainability
6cp
Postgraduate
This subject provides students with a framework for incorporating the natural environment into business strategies and practices. It provides an opportunity to systematically understand business-environment relationships and integrate concepts and techniques from disciplines ranging from operations management to environmental sociology. It provides a unique set of skills for future managers to transform environmental challenges into business opportunities.

21833 International Human Resources Management
6cp
Postgraduate
This subject focuses on issues relating to the management of a global flexible workforce, specifically those concerning the strategic international dimensions of human resource management (HRM). Topics include the strategic link between international business and international HRM; theories of strategic international HRM; strategy, structure and the people management function; contemporary issues in international HRM; expatriate management; and critical evaluation of the international HRM function.

Typical availability:
Autumn semester, City campus

21837 Strategic Operations Management
6cp
Postgraduate
This subject provides an applied perspective to the question of how to analyse and manage business operations in both the manufactured goods and the service sectors. It adopts a strategic focus in demonstrating how operations can be used to leverage the competitive capability of an enterprise in global markets and to increase effectiveness of public sector delivery environments. The subject raises awareness of the increasing interdependence between service functions as integral to the process of manufactured goods.

21841 Corporate Governance and Strategic Direction
8cp; availability: Executive MBA [C04031] students only
Executive MBA [C04031] students only
Postgraduate
This subject provides a deeper understanding of the way companies are owned and controlled and of the systems for corporate governance which exist in different institutional environments. The subject provides students with a positive philosophy about the way they can structure thinking about corporate strategy and focuses on the development of corporate strategies by adopting a comprehensive approach incorporating different perspectives. The subject is holistic, comprehensive and takes a practical, applied approach to theoretical concepts.

21864 Managing Work and People
6cp
Requisites: 21878c Organisational Dialogue: Theory and Practice
These requisites may not apply to students in certain courses. See access conditions.
This subject is specifically designed to enable students to develop a critical appreciation of management practice with critical thinking and the integrative approach. The aim of the subject is to help students improve their understanding and abilities to manage human systems, exercise leadership and work effectively with other people. Students are exposed to a variety of leadership perspectives through readings, discussions of experts in the field and successful leaders via video, and group discussion. The subject also provides a forum for students to learn and think introspectively about their own personal values, leadership styles, emotional intelligence and long-term aspirations. Participating in experiential activities allows students to have direct experience applying team dynamic concepts in the context of their own teams and challenges.

21883 Strategic Competitive Advantage in the Digital Age
6cp
Postgraduate
This is an integrating subject concerned with obtaining competitive advantage at a strategic level in the digital age. Using a framework approach to strategic competitive advantage and change management, the subject examines the digital information age at three levels. First, at a national policy level by comparing the approach of the USA, UK and Australia. Secondly, at the level of the tele-media industry and the organisations that supply it. Thirdly, the effect of the digital age (through e-business) on the strategic competitive advantages of industries already affected in the USA is reviewed, as well as changes to competitive advantage in Australia.

21884 Innovation and Entrepreneurship
6cp
Postgraduate
This subject presents students with a perspective on how innovation and entrepreneurship occurs – across industries and firms, in large and established organisations and in small and new ventures. The subject examines broad processes of innovation (the creation of markets, the flow of ideas, the dynamics of invention and commercialisation) and also related organisational processes (strategy, structure and internal processes that foster creativity) that are relevant to all organisations and essential to those seeking to develop an entrepreneurial mindset. Students gain an appreciation of the competitive, institutional, political and economic drivers of innovation and entrepreneurship, and gain practical insights into analysing business model viability, assessing opportunities, creating new ventures, designing effective organisations for innovation, producing business plans and pitch decks, and how they can use their social capital for career advancement.

21886 Career and Portfolio Development
6cp
Postgraduate
This subject assists students to review learning and plan career paths for themselves and for the people they manage and supervise. It provides the theoretical and practical frameworks for students to integrate their credentialled and uncredentialled learning into a cohesive portfolio that positions them optimally for career choices in the sector. It enables students to identify gaps in their repertoire of knowledge and skills, which can then be addressed within the industry-training program.

21880 Managing Knowledge
6cp
Postgraduate
The basis for the global momentum of implementing knowledge management is the need to understand the real value of knowledge, to create new management philosophies, standards and practices and to establish new models of success. This subject examines the movement away from the traditional paradigm of ‘hoarding knowledge’ to a structured approach, which creates the incentive for sharing
knowledge and establishes a knowledge management framework. It introduces the management initiatives of implementation, technology, strategies, planning organisational transformation, and a general understanding of the future environment for managing knowledge within the organisation.

21862 Motivating and Managing People
8cp; availability: Executive MBA (C04031) students only
Executive MBA (C040431) students only
Postgraduate
This subject examines people management policies and practices from the perspective of the senior manager. It notes contemporary trends in organisational structure and explores related people management theory and practice using a behavioural science framework. It enables students to use behavioural science ideas to analyse individual performance issues and organisational processes in the management of human performance at work; relates people management practices to developments in management thought and to changing values in the world of business and administration; and critically evaluates the major theories and models that have been developed to explain individual, group and inter-group behaviour in work organisations.

21869 Innovation and Entrepreneurship
8cp
Postgraduate
This subject presents students with a perspective on organisational innovation and entrepreneurship. In a globalised economy, innovation becomes one of the key strategic differentiators and drivers of growth. Analysing the practice of innovation, the topics include successful intra- and entrepreneurship models, sources of innovation, business models supporting innovation strategies, and reflection on the innovation journey. Special emphasis is placed on the understanding of new venture creation and the innovation process with the aim of broadening students’ perspectives and better equipping them for successful innovation.

21870 Strategic Human Resource Management
8cp
Postgraduate
This subject introduces students to the theory, practices and skills utilised to strategically manage human capital within the context of high-performance cultures. Students learn how to develop and utilise human capital metrics to evaluate the effectiveness of an organisation’s HRM system.

21871 Operations and Value Chain Strategy
8cp
Postgraduate
Operations and Value Chain Strategy presents operations from a vantage point that encompasses both the entire organisation and the broader supply network. The subject contextualises operations management by arguing that the goals to which any high quality operation must aspire are the goals of profitability and sustainable business practices. The subject presents operations within a context that acknowledges the interactions both within all functional areas of an organisation as well as the supply chain network serving it.

21872 Organisational Analysis
8cp
Postgraduate
The subject enables students to understand and improve their own managerial and organisational practice by introducing them to the ideas associated with established theories of organising and emergent theories of practice in organisational studies. The subject reviews the key concepts and issues that inform debates on contemporary organising and allows students to develop reflective perspectives on these as they are relevant to their own work. Following an introduction to the theory and practice of organising, the subject is divided into two main parts: concepts and issues. The key concepts that are discussed include organisational structure, organisational culture, organisational power and organisational responsibility. The key issues for practice that are discussed are organisational change and identity, gendered organisations and diversity, cross-cultural organising, management and organisational fads and fashions, anti-corporate movements and globalisation, and corporate social responsibility and sustainability.

21873 Global Business Strategies
8cp
Requisite(s): 21874 Corporate Governance and Sustainability AND 24800 Managerial Marketing AND 27800 Applied Leadership AND Strategy AND 21875 Organisational Behaviour in Practice AND 22841 Accounting Information for Managers AND 25845 Managerial Economics AND 25841 Decision Making Tools AND 25846 Managerial Finance
Postgraduate
Global Business Strategies is the capstone subject in the Executive MBA degree. This subject challenges the traditional thinking about strategy and is designed for undergraduate students and practitioners who wish to apply high level conceptual and critical thinking skills to global business strategy and value innovation. The key issues addressed are how to plan and execute the steps required for initiating new international business ventures, how to meet the business challenges arising from international, social and environmental concerns, and technical innovation. The implications of cross-country differences in cultural, demographic and market conditions, strategy options for entering and competing in foreign markets, the growing role of alliances with foreign partners, the importance of locating operations in the most advantageous countries and the special circumstances of competing in such emerging markets are explored.

21874 Corporate Governance and Sustainability
8cp
Postgraduate
This subject examines corporate governance systems by which business corporations are directed and controlled, and how these may contribute to sustainable enterprise. Issues considered include the implications of the separation of ownership and control, contrasting institutional systems of governance, competing theoretical explanations, the mechanisms of governance, the increasing significance of capital markets and the internationalisation of finance and regulation. The subject employs a stakeholder management perspective to analyse organisational strategies, values and operations that facilitate the development of sustainable, high-performing organisations, as well as enabling a balance between enterprise, society and the ecosystem. The subject focuses on how organisations develop a ‘licence to operate and grow’ through their relations with employees, wider society and the natural environment, developing skills in critical analysis, risk evaluation and management, scenario planning and stakeholder dialogue.

21875 Organisational Behaviour in Practice
8cp
Postgraduate
As organisations are primarily collections of people working together towards common goals, and the primary management task is to lead human resources in the effective pursuit of those goals, an understanding of organisational behaviour is critical to managers and the process of managing. Managing and leading people takes place in an increasingly complex and uncertain global environment. Furthermore, people are complex, multifaceted and not always predictable, and this is amplified when people are in dynamic relations: in groups, teams and organisations. In dealing with this dynamism, complexity and uncertainty, managers need to have knowledge and insight into behaviour that stands on solid foundations.

This subject is concerned with the systematic study of human behaviour within the context of organisations and seeks to provide an understanding and explanation of behaviour that provides such a foundation. Organisational behaviour is an applied field of study that aims to improve the performance of organisation members and enhance organisational effectiveness. Core issues upon which managerial and organisational success hinge, such as effective communication, decision making, creativity, teamwork, management of conflict, organisational culture and organisational change, are central topics in this subject. Effectively driving these vital processes requires knowledge and competencies in dealing with the complexities of people's personalities, values, attitudes, and perceptions; these issues are also covered. This subject is designed to help students develop into better leaders, managers and organisation members.
21877 Strategic Procurement
6cp
This subject focuses on the management of procurement of goods and services from a strategic perspective. Topics include procurement as a strategic function; key procurement issues such as outsourcing, sourcing strategies and relationships, total cost of ownership, inventory management and negotiations; and applications of procurement such as procurement of commodities, international and global sourcing, capital procurement, efficient consumer response, services procurement and corporate social responsibility and e-procurement and contract management.

21878 Organisational Dialogue: Theory and Practice
6cp
This subject is designed to develop students' sensitivity to the importance of organisational communication and dialogue. It enables students to evaluate communication practices in terms of their capacity to facilitate shared understanding among various organisational stakeholders. By integrating current management and communication theory, the subject emphasises the link between communication and the broader strategic and socio-cultural contexts of organisations. Cultural issues and leadership challenges are specifically considered to develop an understanding of the complexity of facilitating organisational dialogue. On a practical level, the subject assists students in developing their communication skills for academic and professional purposes.

21879 Corporate Social Responsibility and Social Impact
6cp
Postgraduate
This subject examines different approaches to identifying and analysing the social impact of corporate and not-for-profit organisations. It explores the potential usefulness and relative merits of various impact assessment methods, including social accounting and audit, social return on investment, log frame techniques and the merits and limitations of existing indices such as the Dow Jones Sustainability Index, Corporate Responsibility Index and Global Reporting Initiative. The subject also examines how corporations and community organisations can work together to further their respective objectives by exploring the challenges and opportunities associated with cross-sector partnerships.

21886 Integrated Business Consulting
8cp
Postgraduate
This subject draws on functional knowledge in business and applies this to live case studies. The subject is framed as a strategic consultancy, whereby students are expected to undertake professional assessment of clients' needs and challenges in order to provide viable solutions and rigorous business plans. Students are expected to work closely with the client, undertake primary research and analyse secondary data sources in order to identify business problems and design strategic business solutions. They work in teams to achieve innovative results for the client reflecting integrity in assessing the situation, communicating and justifying the results to the client and independent assessors.

21909 Advanced Organisation and Management Theorising
6cp
Undergraduate
This subject provides research degree students with the theoretical skills to be able to engage with the highest quality research literature and understand the issues that frame the debates encountered. Topics included current and historical perspectives, metatheoretical approaches to management and organisation theory, and epistemological and ontological issues in theorising organisations and management.

21910 Researching Organisations and Management
6cp
Undergraduate
Exemplary research is well conceived, well executed, and well written. It is what scholars should aim to do. The purpose of this subject is twofold: 1) to introduce research students to the ideas and techniques that underpin particular examples of exemplary research; and 2) to help research students apply these ideas in the execution of their own research. Students not only critically evaluate examples of research but also explore the practice of research to identify key strategies and potential pitfalls that can affect their research process and timing.

21912 Thesis Proposal in Management (Honours)
6cp
Undergraduate
This subject requires students to produce a written thesis research proposal of about 6000 words that forms the basis of the research to be carried out in 21913 Thesis in Management (Honours). Students are allocated an academic supervisor from within the School of Management, with whom they meet regularly throughout their enrolment in the subject. The subject develops the student's competency in carrying out a critical review of the literature, choosing appropriate research methodologies, and the writing of research proposal.

21913 Thesis in Management (Honours)
18cp
Undergraduate
The honours thesis requires the student to produce a thesis of about 20,000 words based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student's competency to conceptualise, conduct and present research in a scholarly and independent manner.

21914 Readings and Reflecting on Management
6cp
Requisites(s): 21907 Research Methods and Approaches in Management and Organisations
There are also course requisites for this subject. See access conditions.
This subject is an advanced undergraduate research subject. It develops advanced understanding in a specialised area of interest such as strategy, operations management, leadership, the history of management thought, organisation behavior, or other relevant areas of management research.

21915 Management and Organisation Seminars
6cp
Requisites(s): 21907 Research Methods and Approaches in Management and Organisations
There are also course requisites for this subject. See access conditions.
This subject is a series of seminars that surveys in-depth one or two particular theoretical perspectives and issues studied in organisation and management theory (OMT) research. Organisation and management theory is a fertile area of social science because of the importance of understanding organisations, and it is the place where key challenges to traditional theory have emerged in recent times. This subject explores two or three topics in depth allowing students to gain a sense of the power of theory and its potential applications.
21982 PhD Thesis: Management
6cp
Postgraduate
Students must undertake original research, supervised by a senior member of the school’s academic staff. Students must prepare a proposal, present it and gain approval before proceeding. The thesis should advance knowledge in the area of management, and should be of a standard publishable in an international refereed journal.

21990 Master of Business Thesis (Management)
6cp
Students are required to complete a thesis which is considered to involve an amount of study equivalent to four semesters for full-time study, and six semesters for part-time study. The thesis is expected to present original research of a theoretical or applied nature in management. It is not expected to advance knowledge, as is required in the case of a PhD thesis, but it should give evidence of the student’s ability to engage in a substantial investigation, identify and analyse research problems and present the results in a coherent and scholarly manner.

22107 Accounting for Business Decisions A
6cp
Requisite(s): 26100c Integrating Business Perspectives
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
In most economies business success is measured in financial terms. It is the accountants who undertake this measurement. Many decisions in business are made based on accounting information, both historical (based on past events) and projected (based on estimates of the future). Understanding accounting as a systematic way of measuring and communicating financial information on the financial status of various business entities is the foundation for any successful career in both the private and public business sectors.

First-year experience videos
• View commentary from students and academics about this first-year subject at: www.youtube.com/user/utschannel#p/u/18/v0FrGx0cdCgoQ
• Academic video: www.youtube.com/user/utschannel#p/u/29/EE6t0prbNM

22157 Australian Corporate Environment
6cp; availability: Bachelor of Accounting students only
For Bachelor of Accounting students only
Undergraduate
This subject introduces students to the Australian corporate environment as part of their first Industrial Experience semester. Students undertake a variety of work-based assignments involving research into the structure of the sponsoring organisation they are training with, readings of current business journals, interviews with managers, and regular readings and homework from the set text.

22207 Accounting for Business Decisions B
6cp
Requisite(s): 22107 Accounting for Business Decisions A  OR 22107c Accounting for Business Decisions A
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject applies accounting in an information systems context to equip students with the appropriate accounting skills necessary to participate in a managerial capacity, including the skills to facilitate and enhance decision-making, accountability and control. Ethical implications of decisions are considered throughout the subject. The subject covers areas in both financial and management accounting.

Note(s)
Students intending to enrol in the Accounting, Banking or Finance majors must complete this foundation core subject.

22240 International Accounting
6cp
Requisite(s): 22107 Accounting for Business Decisions A
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
In a rapidly changing world environment, the significance of international accounting has grown substantially, along with the expansion of international business activity. This subject introduces students to the importance of international accounting in global trade and gives them an awareness of the complex variables involved. Through the perspective of multinational corporations, students discuss and analyse major issues impacting global operations and research topical issues that drive their development and understanding of international accounting at work.

22309 Accounting for Overseas Transactions
6cp
Requisite(s): 22107 Accounting for Business Decisions A
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces students to the basic concepts underlying the variety of accounting issues involved in the recording and reporting of overseas transactions. It covers relevant aspects of documentation, foreign exchange gains and losses, foreign exchange hedging, forward exchange contracts, effects of overseas inflation, financing overseas transactions and facilitation through government and non-government agencies. It provides skills and information needed to advise clients on overseas transactions. Concentration is placed on the operational and accounting treatment of foreign operations as distinct from a marketing or economic approach to the subject area.

Typical availability
Autumn semester, City campus
Spring semester, City campus

22319 Financial Statement Analysis (Capstone)
6cp
Requisite(s): 22420 Accounting Standards and Regulations AND 25300 Fundamentals of Business Finance
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The aim of this course is to demonstrate and apply a framework for business analysis and valuation using financial statement data. The emphasis of the course is on translating the tools of business analysis and valuation into practical situations. To achieve this, the course is relatively case intensive, with this method used to develop key skills as well as demonstrating their application. The course is intended for students interested in business consulting, investment banking, business analysis and corporate lending. Given the increasing trend towards a business analysis-based approach to auditing and assurance services, it is also relevant to those interested in public accounting.

22320 Accounting for Business Combinations
6cp
Requisite(s): 22207 Accounting for Business Decisions B
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Together with 22420 Accounting Standards and Regulations this subject deals with the application and analysis of prescribed accounting treatments. It specifically surveys the institutional and legal framework of current Australian accounting with reference to international accounting standards and local and overseas standards and exposure drafts. The subject also emphasises financial reporting and accounting for companies including consolidated accounts of complex economic entities, associate companies and joint ventures.
22321 Cost Management Systems  
6cp  
Requisite[s]: 22207 Accounting for Business Decisions B  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject introduces students to the basic concepts underlying management accounting, which is one of the core streams in the study of accounting. It provides an in-depth understanding of appropriate cost management concepts with an emphasis on the use of accounting information to understand and make decisions about the management of the cost structure of organisations. Students acquire a set of concepts, skills and techniques that are necessary for potential managers, with particular appreciation of the various issues and challenges faced by managers within organisations.

22420 Accounting Standards and Regulations  
6cp  
Requisite[s]: 22207 Accounting for Business Decisions B  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject provides the ability to understand, critically evaluate and apply accounting standards and interpret financial reports. It considers the financial reporting environment and factors influencing the forms of financial reporting, and addresses a range of accounting issues from within a contracting cost framework.

22421 Management Decisions and Control  
6cp  
Requisite[s]: 22321 Cost Management Systems  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject introduces the use of management accounting information to support managerial decisions and control within organisations. It emphasises decision and control issues in a contemporary environment and introduces appropriate decision and control concepts, techniques and skills. It also emphasises the ways in which accounting information can be used to understand and make decisions about the operational and strategic management of an organisation, and to control the implementation and ongoing management of such decisions.

22491 Financial Statement Analysis and Valuation  
6cp  
Undergraduate  
The aim of this subject is to demonstrate and apply a framework for business analysis and evaluation using financial statement data. The emphasis is on translating the tools of business analysis and evaluation into practical situations. To achieve this, the subject is relatively case intensive, with this method used to develop key skills as well as demonstrating their application. The subject is intended for students interested in business consulting, investment banking, business analysis and corporate lending. Given the increasing trend towards a business analysis-based approach to auditing and assurance services, it is also relevant to those interested in public accounting.

22492 Understanding Financial Reports Prepared Under IFRS  
6cp  
Requisite[s]: 22207 Accounting for Business Decisions B  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject provides the foundation for understanding international financial reporting standards (IFRS) and the ability to critically evaluate corporate financial reports. It considers the financial reporting environment and factors influencing the forms of financial reporting, and addresses a range of accounting issues from within a contracting cost framework.

22502 Financial Planning in Australia  
6cp  
Requisite[s]: 22207 Accounting for Business Decisions B AND 25556 The Financial System AND 79017 Taxation Law  
This subject provides students with an understanding of the financial planning processes in Australia from a professional practice perspective. The subject exposes students to a variety of alternative strategies for the management of personal financial risk exposures and links those strategies with a consideration of broader contemporary socioeconomic and sociological issues. Students consider the interaction between stakeholder interests and the availability of products and service processes in the context of the effective management of potential ethical issues, and the need for the provision of effective professional services while maintaining ongoing compliance with the requirements of the financial services sector regulatory environment.

22515 Computer-based Accounting  
6cp  
Requisite[s]: 22207 Accounting for Business Decisions B  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject introduces the concepts of computerised accounting and the general operation of several microcomputer accounting packages. It also provides opportunities for students to gain experience in the installation and operation of accounting packages for small business. Topics covered include the development of an accounting framework for small and medium enterprises; and the selection, application and operation of microcomputer accounting packages including general ledger, cash book, accounts receivable, accounts payable and inventory. The subject also covers the statutory reporting requirements of SMEs from a professional practice perspective.

22520 Corporate Reporting: Professional and Conceptual Issues  
6cp  
Requisite[s]: 22320 Accounting for Business Combinations AND 22420 Accounting Standards and Regulations  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This is a capstone subject involving the conceptual framework for the accounting theory underlying the information content and disclosure requirements of contemporary corporate reporting. Topics covered include the evolution of accounting thought and language; the development of accounting principles and structure; the nature and role of theory; theory construction and verification in accounting; positive accounting theory and methodology; accounting information and securities markets; information asymmetry - creative accounting practices and insider trading information; accounting earnings and security prices; accounting disclosure regulation rationales; contracting process and agency relationships; the role of accounting numbers in management compensation plans and corporate debt contracts; accounting and the political process; and accounting ethics and behavioural research in accounting.

22522 Assurance Services and Audit  
6cp  
Requisite[s]: 22320 Accounting for Business Combinations AND 22420 Accounting Standards and Regulations  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject addresses the provision of assurance services. It focuses mainly on the attest services offered by auditors to provide credibility of information in company and other organisation financial statements. The subject studies the audit process of understanding client’s operations and risk, analytical review and the pivotal importance of evaluation of the quality of client internal control and evaluates internal control in a COSO framework. The subject provides an understanding of professional, ethical and legal requirements and responsibilities in completing and reporting on assurance tasks. It is accredited by the accounting professional bodies.
Access conditions are available in the individual subject descriptions in the online handbook.

22523 Assurance for e-Business
6cp
Requisite(s): 22107 Accounting for Business Decisions A AND 24307 e-Business Foundations
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject addresses the accounting and assurance implications of doing business electronically including accounting's role in attesting to the credibility of information. It considers consumer-to-business and business-to-business e-commerce transactions in traditional and ERP (such as SAP) environments. It examines services such as WebTrust for attesting reliability and integrity of websites, and researches and develops methodologies to attest that credibility of information. Students gain substantial first-hand experience in undertaking assurance and auditing services for e-commerce, and develop skills in understanding, providing and communicating assurance services for e-commerce.

22566 Small Business Management and Accounting
6cp
Undergraduate
This subject develops the knowledge and skills required by accountants in dealing with the problems that are unique to their professional work in the small business sector. It highlights and emphasises the practical matters associated with the initiation and growth of a small business. Topics covered include an overview; the requirements of establishing a business — the stops and structures; economic cycles' growth and future; acquiring and/or financing the business; accounting — records, control, costing and pricing; financial analysis and management; appraisals and acquisitions; the growing trend towards franchising as a form of small business; taxation and tax planning; insurance and risk; business disaster planning and recovery; and business and financial planning and budgeting.

22567 Planning and Control for Small Business Enterprises
6cp
Requisite(s): 22107 Accounting for Business Decisions A
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject provides students with the skills required to successfully operate a small business enterprise. Students are required to analyse financial data of small business enterprises and develop integrated business plans. The subject highlights the practical matters associated with small business enterprise start-up, operations accounting and management. It also provides an opportunity for students to gain a thorough understanding of planning and controlling small business operations.

22573 Accountability of Small Business Enterprises
6cp
Requisite(s): 22566 Small Business Management and Accounting
Undergraduate
This subject develops the knowledge and skills required by accountants and managers of small business enterprises in dealing with record keeping and compliance requirements. It highlights and emphasises the link between accounting records, taxation reporting and administration of employees. Topics covered include an overview of the basic taxation requirements for small business enterprises from registering an Australian Business Number (ABN) to reporting Business Activity Statements and preparing income tax returns; management of employees from employing new staff to planning for retirement; planning business succession or closing down a business; compliance with various employee-related requirements such as payroll tax, insurances, superannuation and statistical reporting.

22605 Accounting Information Systems
6cp; availability: Bachelor of Accounting students only
Undergraduate
This subject introduces the role of information systems in supplying both qualitative and quantitative financial information to management within large organisations. Extensive practical experience on PCs allows students to be fully productive in their subsequent first internship.

22610 Accounting for Insolvency
6cp
Undergraduate
This subject provides students with a study of accounting for insolvency that is an optimal stream in the study of accounting discipline. It provides an essential set of concepts, skills and techniques to business majors who are potential managers in business. The subject is also designed to provide students with learning experiences that enable them to gain an understanding of the financial management mistakes leading to these business failures or near failures. It develops an understanding and an appreciation of the accounting requirements for business enterprises that are insolvent. It encourages students to develop a basis for research and analytical skills specifically appropriate for diagnosing issues and problems as well as evaluating and interpreting the different characteristics related to business rescue, reconstruction and liquidations by the use of case studies and participating in a group research project. The subject covers a number of important current events and does not only inform students about the major issues, ideas and developments, but also stimulate further inquiry and debate.

22477 Capstone Project: Financial Strategy and Leadership
6cp; availability: Bachelor of Accounting students only
Requisite(s): 22321 Cost Management Systems AND 22421 Management Decisions and Control
There are also course requisites for this subject. See access conditions.
For Bachelor of Accounting students only
Undergraduate
This subject integrates previous studies in accounting, finance and management in the context of the role of the financial control system in a large organisation. It emphasises the development and application of analytical skills in identifying and solving organisational problems and develops the leadership and teamwork skills required from a person in an executive role within a large organisation. This subject is taken by students during their second internship.

22705 Management Planning and Control
6cp
Requisite(s): 22753 Cost Management and Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the role of management accounting in the process of planning, control and performance evaluation of contemporary organisations at corporate, division and functional levels. It talks about what it means to have an organisation be in control, what alternatives managers have for ensuring good control and how managers should choose from among control system alternatives. It then focuses on financial control systems, financial targets setting, performance measurement and evaluation, and the assignment of various forms of organisational rewards (and punishments). Finally, planning, control and performance evaluation issues of inter-organisational collaboration ventures and international operations are examined. The subject takes mostly a user perspective. At least some of the material covered in this subject is relevant to students no matter what kind of organisation they work in and what function they have in that organisation.
22708 Accounting Information Systems
6cp
Postgraduate
This subject provides students with a broad knowledge of the fundamentals of accounting data management and analysis, modelling of decision problems, business process execution and control and information integration. The subject also introduces examples of accounting information systems software for both SMEs and large enterprises (enterprise systems software). Models and software tools are used in order to plan and simulate the process of the transformation of real-world complexity into accounting figures and in order to highlight the interdependencies between different business functions. The subject also emphasises the role of computerised accounting systems in internal control and demonstrates how to evaluate the effectiveness and limitations of control systems.

22730 Auditing and Assurance Services
6cp
Requisites: 22748 Financial Reporting and Analysis AND 22754 Corporate Accounting AND 22747 Accounting for Managerial Decisions
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject addresses the provision of auditing and assurance services. It focuses mainly on the attest services offered by auditors to provide credibility of information in company and other organisation financial statements. It also considers the expansion of assurance services beyond the traditional financial statement audit into such areas as risk assessment, information system reliability, asset protection, detection and prevention of fraud and electronic commerce. It also deals with the methodology necessary to complete a financial statement audit or to provide other assurance services, and the criteria and professional standards used to measure information quality and integrity. The subject studies the audit process of understanding client’s operations and risk, analytical review and the pivotal importance of evaluation of the quality of client internal control and evaluates internal control in a COSO framework.
While internal control systems are evaluated assuming a business environment where information systems are an integral part of control systems and client operations, a variety of information technology environments (including the use of enterprise resource planning (ERP) systems such as SAP e-commerce applications) are introduced. The subject provides an understanding of professional, ethical and legal requirements and responsibilities in completing and reporting on assurance tasks. It is accredited by the accounting professional bodies.

22743 Business Valuation and Financial Analysis
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The aim of this subject is to demonstrate and apply a framework for business analysis and valuation using financial statement data. The emphasis is on translating the tools of business analysis and valuation into practical situations. To achieve this, the subject is relatively case intensive, with this method used to develop key skills and competencies to undertake accounting analysis. Accounting analysis is a tool in performing business analysis using financial statements. In making accounting analyses, students distinguish between the information revealed by management on the firm's underlying business activities, the sources and effects of distortions of this information that can be induced into the accounting numbers and the errors that can arise in accounting estimates used in accounting numbers. This is an intermediate level financial accounting subject.

22744 Strategic Resource Management
6cp
Requisites: 22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications OR 22746 Managerial Accounting
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops knowledge and skills in the design of cost systems of firms to improve the effectiveness of pricing, product and customer mix decisions, and product and process design. It incorporates the latest developments in the field of cost management accounting, such as value chain analysis, activity-based costing, new technology such as FMS and its impact on the design of cost management systems, and the design of non-financial performance measures used in benchmarking quality.

22747 Accounting for Managerial Decisions
6cp
Requisites: 21878c Organisational Dialogue: Theory and Practice
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
The subject aims to expose students to the nature and use of accounting information as used by managers to plan and control business operations as well as for decision support. The subject is intended to prepare students to understand and use accounting information for decision support, analysing historical operations and planning future business activity. This subject provides a sound grounding in the application of accounting concepts and techniques used to gain intelligence about all aspects of business operations.
The topics comprise a mix of financial and management accounting. The financial accounting topics concern the basic financial statements, their analysis and the concepts and procedures that underpin their preparation. The management accounting topics relate to cost and profit planning, and the use and application of financial information to support management decision activity for both routine and non-routine business situations.

Typical availability
Summer session, City campus

22748 Financial Reporting and Analysis
6cp
Requisites: 22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The principal aim is to provide students with the skills and competencies to undertake accounting analysis. Accounting analysis is a tool in performing business analysis using financial statements. In making accounting analyses, students distinguish between the information revealed by management on the firm's underlying business activities, the sources and effects of distortions of this information that can be induced into the accounting numbers and the errors that can arise in accounting estimates used in accounting numbers. This is an intermediate level financial accounting subject.

22753 Cost Management and Analysis
6cp
Requisites: 22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
Management accounting information systems are one of the main decision-support systems in organisations. This subject introduces students to quantitative and qualitative techniques for the analysis of business operations using accounting and financial management measurement and analytical tools. This subject equips students with the skills and knowledge to design and use effective management accounting information for planning and controlling organisational activities.
Topics include forecasting revenues and costs, cost behaviour and cost-volume-profit analysis, business planning and cost control using budgeting and variance analysis. Data analysis and conversion to information products utilising information technology productivity tools is applied to practical 'real-life' decision situations confronting managers, paying particular emphasis on building sustainable organisations.

**22754 Corporate Accounting**
6cp
Requisite(s): 22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the institutional and legal framework of modern Australian financial accounting. The main topics include accounting for acquisition of assets including business enterprises; valuation and goodwill; consolidated accounts of complex economic entities; accounting for associate companies and joint ventures; and corporate restructuring.

**22759 Accounting and ERP**
6cp
Requisite(s): 22747c Accounting for Managerial Decisions OR 22784c Accounting: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to accounting with enterprise resource planning systems (ERPS) and provides an integrated view on accounting, information management, and business processes management in an ERPS. Students get the opportunity to manage master data, day-to-day transactions and periodic/closing transactions in accounting in a virtual company implemented in a 'real world' market-leading ERPS (SAP ERP). Cross-functional automation and control features in ERPS are demonstrated, and students manage cross-functional business processes within their own virtual accounting environment.

**22766 Assurance for Enterprise Systems**
6cp
Requisite(s): 22759c Accounting and ERP
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This advanced accounting information systems subject deals with assurance and control issues in an integrated systems (enterprise systems) environment. The control frameworks evaluated include management/general controls, task controls and application controls. Students gain advanced financial reporting skills for detective control and learn how complex authorisation profiles and automation can be used as preventive controls in an enterprise systems environment. In an extensive case study, students have to demonstrate and deepen their theoretical knowledge and practical skills with SAP solutions.

**22768 Decision Support in Contemporary Organisations**
8cp; availability: Executive MBA (C04031) students only
Requisite(s): 22767 Accounting for Executive Management
There are also course requisites for this subject. See access conditions.
Executive MBA (C04031) students only
Postgraduate
Internal management information systems are the lifeblood of executive decisions. Integrated business solutions help managers to control and make value-adding decisions about products, customers, and business units; develop successful revenue strategies; monitor projects, joint ventures and strategic alliances; and develop the right e-business plans and strategies.

**22771 Accounting for Public, Leisure and Community Organisations**
5cp
Postgraduate
This subject is concerned with accounting from a 'user' rather than a 'practitioner' perspective. It focuses on effective management and decision-making through the development and application of analytical skills from accounting and finance. The subject equips graduates with appropriate skills in accounting, finance and management. Topics include the nature and purpose of accounting; basic accounting concepts and key financial statements; analysis and interpretation of financial statements; finance, financing and financial vulnerability; audit and external review; costing products and services; internal control and internal control systems; and strategic and business planning.

**22772 Current Issues in Enterprise Systems**
5cp
Postgraduate
The general objective of this subject is to provide accounting students with skills in emerging technologies and systems for business information system management. The content of the subject varies from year to year in order to provide the flexibility to address contemporary issues in enterprise systems. Specific topics could be accounting for projects, advanced corporate reporting tools, marketing accounting, enterprise simulation tools, e-learning concepts for accounting systems, etc.

**22774 Strategic Enterprise Management Systems**
6cp
Requisite(s): 22782c Business Process Integration with ERP
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides students with knowledge of advanced concepts in management accounting and with advanced skills in implementing these concepts in integrated information systems (extended ERP systems and data warehouses). Commercial strategic enterprise management systems packages are used as tools to demonstrate both the management accounting aspects and the information systems aspects of the strategic performance management. Students learn how to design a Balanced Scorecard for a virtual enterprise, and also acquire skills implementing it into complex enterprise software.

**22776 Business Information Systems**
5cp
Postgraduate
In this subject students explore the role of information systems in the modern business environment and examine a broad range of issues including IT governance and strategy, IT infrastructure management, the role of IT in supporting business processes, data warehousing/ business intelligence, e-business and environmentally sustainable IT. Practical examples of both successful and failed information systems projects are presented and discussed in the light of the 'IT Productivity Paradox' . An important objective of the subject is to provide students with the opportunity to discuss and debate the ethics regarding the use of IT and information systems in modern organisations and society.

**22777 International Accounting**
5cp
Requisite(s): 22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
In the context of many corporations operating in an extensive global business environment, this subject explores the causes and effects of diversity in corporate financial accounting and evaluates the efforts undertaken to harmonise accounting standards and practice internationally. The identities and interests of stakeholders in this process are considered. The subject is intended to equip students with the knowledge and skills to appreciate the characteristics and limitations in the interpretation of accounting reports originating from various countries and that arise from diverse cultural and other factors impacting on each country's national accounting profession.
22782 Business Process Integration with ERP
6cp
Requisite(s): 22759 Accounting and ERP OR 21741 Managing Operations
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This capstone-type subject focuses on the integrative nature of operational business plans and actual business processes, and it demonstrates how organisations can implement those plans and execute/control those processes in enterprise resources planning systems (ERPS). The subject provides students with knowledge about the theoretical concepts and techniques used in operations management/supply-chain management and cost accounting, and it also exposes them to the practical representation of those concepts and techniques in a large-scale, highly integrative ERPS (currently SAP ERP). An extensive group project provides students with strong exposure to real-world (implementation) issues at the interface of operations management, cost/financial accounting and information management with enterprise systems.

22783 Business Intelligence 2: Advanced Planning
6cp
Requisite(s): 22708 Accounting Information Systems AND 22759 Accounting and ERP
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

Understanding and applying advanced planning and optimisation methods for supply chain management are essential skills of management accountants in today’s business. This subject deals with techniques that generate optimised executable plans in response to rapid changes in supply or demand (demand planning, profit maximisation through demand and supply optimisation, integrated, value-based supply chain management). Interactive, problem-based lectures and seminars demonstrate these management accounting concepts and allow students to practise in real-time how these techniques can be applied using the SAP products for advanced supply-chain management.

22787 Business Project Management
6cp
Postgraduate

This subject takes a holistic and business-oriented approach to the management of projects. Topics covered include project definition, roles and responsibilities, project planning, managing project risk, resource management, time and cost estimation, project control and reporting, measuring project success, and post-implementation review. Project management software is used to assist with resource allocation, costing and schedule. Students are required to form project teams and manage their own projects throughout the teaching period.

22797 Business Intelligence 1: Advanced Analysis
6cp
Requisite(s): 22776 Business Information Systems OR 22708 Accounting Information Systems
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject introduces students to data warehousing and data mining, key issues in future information management in an environment in which the filtering and aggregation of external (e.g. WWW) and internal information becomes the critical success factor. The SAP New Dimension Product, Business Warehouse, is used in order to practise the procedures in data warehouse design and in order to demonstrate the integration of data warehouses with other business information systems, above all, the application of information generated in data warehouses for management accounting and decision-making.

22814 Accounting Information for Managers
8cp
Postgraduate

This subject develops accounting knowledge and its application in the management of business activity. It integrates accounting with other aspects of managerial decisions including general management, finance, production, marketing and human resource decisions. The subject is divided into two parts, with the first part introducing students to the interpretation and analysis of financial statements and their practical applications. The second part focuses on management accounting issues including budgeting, variance analysis, cost allocations and internal performance measurement and reporting systems. Students are required to undertake a ‘real-life’ syndicate case study based on a listed public company.

22815 Business Decisions and Models
8cp
Requisite(s): 22814 Accounting Information for Managers AND 25846 Managerial Finance
There are also course requisites for this subject. See access conditions.
Postgraduate

This subject introduces students to quantitative techniques for forecasting, planning and analysing business operations, using accounting and financial management measurement and analytical tools. Statistical data analysis and business modelling techniques are applied to generate forecasts of future business operations to provide quantitative information support for management decision-making. The consideration of internal organisational and external environmental factors with regard to the revenue streams and the impact of economic indicators on business activity are also considered. Data analysis and conversion to information products, utilising information technology productivity tools, are applied to practical ‘real-life’ situations confronting managers.

22816 Financial Analysis and Business Valuations
8cp
Requisite(s): 22814 Accounting Information for Managers AND 25845 Managerial Economics AND 25846 Managerial Finance AND 25841 Decision Making Tools
There are also course requisites for this subject. See access conditions.
Postgraduate

This subject explores the latest developments in accounting methods and practices used to analyse and value business operations. It examines the information content of financial statements and how this information, coupled with global, industry and company-specific financial data, aids in the development of models to predict future profits and cash flows. These models are then applied in the context of corporate restructuring, acquisition and mergers, private equity considerations, bankruptcy predictions and fundamental equity valuations. Students are required to evaluate and apply valuation techniques based on pre-configured computer-based spreadsheet valuation templates.

22901 Accounting Research and Consulting Skills
6cp
Undergraduate

The subject introduces students to the notion of scientific and applied research. Building on these frameworks, students are taught how to identify research questions, develop theoretical frameworks and empirically test their theories. Students are also given insight into how to structure research reports.

22902 Financial Reporting, Capital Markets and Disclosure
6cp
Undergraduate

The subject introduces students to the notion of scientific and applied research in financial accounting. Building on these frameworks, the students are taught how to identify research questions, develop theoretical frameworks and test empirically their theories. Students are also given insight into how to structure research reports.
22903 Contemporary Issues in Management Accounting Research
6cp
Undergraduate
The subject entails an overview of historical and contemporary developments in management accounting theory and research plus a detailed review of research in specific topic areas. In any one year three to four major topic areas are selected from the wide diversity of research on management accounting, with an emphasis on contemporary developments.

22906 Thesis in Accounting
24cp
Requisite(s): 22901 Accounting Research and Consulting Skills AND 22902 Financial Reporting, Capital Markets and Disclosure AND 22903 Contemporary Issues in Management Accounting Research AND 22908 Economics of Auditing and Assurance Services
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject requires the student to produce a 20,000-word (maximum) thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student's competency to conceptualise, conduct and present research in a scholarly and independent manner.

22908 Economics of Auditing and Assurance Services
6cp
Undergraduate
The subject introduces students to the notion of scientific and applied research in auditing and corporate governance. Building on these paradigms, students are taught how to identify research questions, develop theoretical frameworks and test empirically their theories.

22909 Thesis in Accounting (PT)
12cp
Undergraduate
This subject requires the student to produce a 20,000-word (maximum) thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student's competency to conceptualise, conduct and present research in a scholarly and independent manner. Students may complete the thesis in a maximum of three semesters.

22982 PhD Thesis: Accounting
0cp
Postgraduate
Students must undertake original research, supervised by a senior member of the school’s academic staff. Students must prepare a proposal, present it and gain approval before proceeding. The thesis should advance knowledge in the area of accounting, and should be of a standard publishable in an international refereed journal.

22990 Master of Business Thesis (Accounting)
0cp
Students are required to complete a thesis which is considered to involve an amount of study equivalent to four semesters for full-time study, and six semesters for part-time study. The thesis is expected to present original research of a theoretical or applied nature in accounting. It is not expected to advance knowledge, as is required in the case of a PhD thesis, but it should give evidence of the student's ability to engage in a substantial investigation, identify and analyse research problems and present the results in a coherent and scholarly manner.

22991 Thesis in Accounting (BAcc)
24cp
Honours
This subject requires the student to produce a 20,000-word (maximum) thesis based on an original problem with a professional or applied impetus. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner.

23021 Labour Economics
6cp
Requisite(s): 25562 Economics of the Firm OR 25567 Intermediate Microeconomics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Labour Economics applies the knowledge and skills students have developed in Intermediate Microeconomics to the functioning of modern labour markets, with a specific focus on the Australian context. Students expand their knowledge of economic concepts to include those that can be used to rationalise firms' and workers' behaviour in the labour market, and students use these concepts to critically evaluate labour market policies. They investigate individual differences in wages and employment, assess the economic effects of minimum wage laws, payroll taxes and education subsidies, and explore the institutional features, historical trends and current policy issues in Australian labour markets.

23022 Public Economics
6cp
Requisite(s): 25562 Economics of the Firm OR 25567 Intermediate Microeconomics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject applies and extends the knowledge and skills students have developed in Intermediate Microeconomics to an analysis of the economic rationale for collective choice and government intervention in the economy. It explores and evaluates the government's ability to identify and achieve more efficient and equitable outcomes. Students extend their knowledge of welfare economics and examine the motivation behind government intervention in the economy. They see why a market economy fails to achieve efficient solutions in the presence of public goods, externalities, natural monopoly and asymmetric information. The subject explains the mechanisms of collective choice, cost-benefit analysis and income redistribution and explores the theory of taxation. Students enhance their ability to distinguish between progressive and regressive taxes, between formal and effective incidence, and between efficient and equal taxes. They also examine how individuals react to income taxes and benefits by modifying their labour supply and consumption behaviour. Finally, the subject presents specific sectors where government intervention is traditionally active, such as health care and education, with emphasis on the Australian economy.

23115 Economics for Business
6cp
Requisite(s): 26100c Integrating Business Perspectives
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject provides students with a basic understanding of the economic influences on business. It offers an introductory treatment of consumer and business behaviour across a range of industry structures and the basic economic concepts used in business analysis and decision-making. It also introduces students to the problem of aggregate economic fluctuations, inflation and the structure of economic relations between countries. Economics for Business also equips students with basic analytical skills to examine the impact of these macroeconomic forces on business conditions and to communicate the results of their analysis in writing.

23304 Asian-Australian Economics Relations
6cp
Requisite(s): 25115 Economics for Business AND [26134 Business Statistics OR 35101 Introduction to Linear Dynamical Systems OR 33130 Mathematical Modelling]]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject gives an overview of the Asian region, its political economy and its economic relationship with Australia. The focus is on those Asian economies that have significant trading relations with Australia. Emphasis is given to exchange rate changes, dynamic
comparative advantage driving changing trade patterns, the political economy and sources of economic growth, regional and global market failure, and comparisons of key macroeconomic variables such as inflation, GDP, unemployment, asset prices and interest rates.

23418 Economics of Money and Finance
6cp
Requisite(s): 25567 Intermediate Microeconomics AND (25568 Intermediate Macroeconomics OR 25555 Macroeconomics: Theory and Applications)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject equips students with the conceptual tools to more thoroughly understand and interpret monetary phenomena in the macroeconomy. It develops the treatment of macro models in intermediate macroeconomics using key frameworks from intermediate microeconomics and uses this treatment to examine various explanations of interest rate determination, the interaction between money, inflation and output, and the functions and regulation of financial intermediaries. This provides a detailed framework for carefully investigating the principles and operation of monetary policy and enables students to develop the skills to evaluate recent challenges and developments in monetary policy implementation.

23491 International Trade and Investment
6cp
Requisite(s): 25115 Economics for Business
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces students to models, frameworks and issues in international trade theory and policy including analytical tools for evaluating the welfare and income distributional consequences of various trade policies. These tools have application not only in academic research but also business and government decision making. The subject covers the main theories of international trade, the impact of trade on economic growth, determination of foreign exchange rates, multilateral trading systems and institutions, regional trade and cooperative agreements and the effects of trade policy interventions such as tariffs, quotas, and subsidies.

23564 Labour and Industry in the Global Context
6cp
Requisite(s): 25115 Economics for Business AND (26134 Business Statistics OR 35101 Introduction to Linear Dynamical Systems OR 33130 Mathematical Modelling 1)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines the effects of institutional structures on the operation of the Australian labour market and the role of government policy in this market with special attention to the economic and cultural implications of immigration. Labour and Industry in the Global Context also examines recent changes in the international and Australian economies and the impact of these changes on industry and job structures. Students are equipped to evaluate labour market and industry trends as well as current policy debates.

23565 Mathematics for Economics and Business
6cp
Requisite(s): 25115 Economics for Business AND 26134 Business Statistics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces students to a range of mathematical techniques used widely in economics and stresses the importance of understanding the logic of these techniques and the kinds of economic problems to which they can be applied. The subject enables students to analyse a number of economic problems from a mathematical perspective and to incorporate this analysis within a wider understanding of these problems.

23566 Economics for Business 2
6cp
Requisite(s): 25115 Economics for Business AND (26134 Business Statistics OR 35101 Introduction to Linear Dynamical Systems OR 33130 Mathematical Modelling 1)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Economics for Business 2 examines a number of core issues in economics that extends the foundational treatment received in 25115 Economics for Business. These issues include how consumers choose between alternative combinations of goods and services, how markets may fail to provide some goods, solutions to economic problems such as pollution, trade between countries and systems of international payments, the implications of fiscal policy decisions for levels of public debt, and the forces that affect long-run economic growth. Students extend their knowledge of foundational economic issues and further enhance their ability to both analyse economic phenomena and critically evaluate government policy. Economics for Business 2 prepares students for more advanced study in economics, finance and other areas of business that draw heavily on economic principles.

23567 Intermediate Microeconomics
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Intermediate Microeconomics extends students’ knowledge and understanding of microeconomic phenomena and the environment within which consumers and businesses operate, as developed in 25115 Economics for Business and 25566 Economics for Business 2. It develops the ability of students to analyse and critically evaluate these microeconomic issues by equipping them with formal concepts and models that employ techniques developed in 25565 Fundamentals of Mathematical Economics. Issues considered in this subject include the theory of consumer choice, competitive strategy and firm behaviour under various market structures, comparative welfare outcomes produced by different market forms, externalities arising from market failure such as pollution and environmental issues, and analysis of public goods. Intermediate Microeconomics prepares students for further study in a range of specialised microeconomic fields.

23568 Intermediate Macroeconomics
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject extends the treatment of macroeconomics in 25115 Economics for Business and 25566 Economics for Business 2 by introducing students to more formal models that are used to explore issues of current macroeconomic significance. Attention is also given to the operation of macroeconomic policy within these frameworks. Students broaden their knowledge of current macroeconomic events, develop their abilities to critically analyse macroeconomic phenomena and enhance their skills in effectively communicating the results of their analysis in written form.
23569 Economic Growth and Development
6cp
Requisite(s): 25567 Intermediate Microeconomics AND 25568 Intermediate Macroeconomics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
At the dawn of the 21st century, nations of the world exhibit large differences in material prosperity. Within countries too, the standard of living of the urban elite often contrasts sharply with the rural poor. Economic Growth and Development extends the treatment of economic growth in 25568 Intermediate Macroeconomics incorporating formal behavioural models from 25567 Intermediate Microeconomics.
It develops students' knowledge and understanding of economic growth by considering a wider range of explanations for this phenomenon and applies these explanations to the large differences in material prosperity and policies designed to address this problem.

23570 Economics of the Environment
6cp
Requisite(s): 25115 Economics for Business AND 26134 Business Statistics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Economics of the Environment provides students with an understanding of the contribution economic analysis can make to the solution of environmental problems. After setting the current interest in the environment into its post-industrial-revolution context, the subject examines externalities, ill-defined property rights and the management of natural resources. This leads to questions of valuing the environment (either economically or according to some other criterion), and how to satisfy the legitimate claims of future generations through so-called sustainable development. The subject focuses on the policy question of pollution control and natural resource depletion, applying various policy tools to contemporary examples.

23571 Introductory Econometrics
6cp
Requisite(s): 25565 Fundamentals of Mathematical Economics AND 26134 Business Statistics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Introductory Econometrics equips students with a general knowledge of regression analysis and model building, which stands them in good stead for basic empirical work in business environments. In particular, students are able to quantify the effects of causal variables and predict using regression models. The approach to modelling, and the reasoning about multi-variable empirical relationships, strengthens students' analytic skills.

23572 Applied Microeconometrics
6cp
Requisite(s): 25571 Introductory Econometrics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Applied Microeconometrics equips students with a general knowledge of model building, which stands them in good stead for basic empirical work in business environments. It provides students with the analytic tools required for further study in cross sectional econometrics. The approach to modelling, and the reasoning about multi-variable empirical relationships, strengthens students' analytic skills.

23580 The Global Economy (Capstone)
6cp
Requisite(s): 25567 Intermediate Microeconomics AND 25568 Intermediate Macroeconomics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This capstone subject outlines an economic perspective on contemporary globalisation. This is done by considering trade theory and open economy macroeconomics, by internationalising concepts that apply equally within economies and by considering perspectives on globalisation. It emphasises contemporary debates related to the global mobility of capital, trade and labour. The subject focuses on policy solutions for global challenges, such as poverty and environmental degradation, and on understanding the worldview of the advocates of particular policy solutions. Students are guided to their own reflective conclusions about the applicability and limitations of mainstream economic analysis.

23591 Economics of Law
6cp
Requisite(s): 25567 Intermediate Microeconomics
Undergraduate
This subject introduces economic concepts underlying the law. It examines and critiques various aspects of the law from the perspective of economics and applies economic tools and concepts to the interpretation and analysis of law and legal institutions.

23592 Game Theory
6cp
Requisite(s): 25115 Economics for Business
Undergraduate
This subject introduces students to game-theoretic concepts used in solving a wide range of economic and non-economic problems. It provides a range of techniques for analysing strategies in both cooperative and non-cooperative settings and explores many applications.

23593 Industrial Organisation
6cp
Requisite(s): 25567 Intermediate Microeconomics
Undergraduate
Industrial Organisation examines the relationships between firms strategies and the market and regulatory environment in which they operate. The subject introduces students to the methods and models used by economists to analyse the behaviour of firms and industries. The models are applied to a range of problems in both the private and public sectors.

23623 Alternative Perspectives in Contemporary Economics
6cp
Requisite(s): [(25567 Intermediate Microeconomics AND 25568 Intermediate Macroeconomics) OR 25562 Economics of the Firm]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Nowadays economics and finance contain an exciting diversity of instructive approaches. The first objective of this subject is to explore the main schools of thought in contemporary economics in order to provide an overview of the field as a whole, to introduce students to different analytical approaches and to provide an understanding of what each school has to offer. The schools of thought are drawn from a set that includes neoclassical economics, behavioural economics, post-Keynesian economics, institutional economics, ecological economics and radical political economy. Each perspective is examined in terms of its conceptual foundations, modes of analysis, and strengths and weaknesses. The second objective of the subject is to enable students to develop skills that are beneficial in the workplace. These include creativity and the ability to innovate, communication skills (oral and written), the ability to work in teams, critical thinking, leadership, cultural awareness and independent learning. The subject uses debates, presentations and games, which together provide an environment highly conducive to the development of these skills.
23706 Economics for Management
6cp
Requisite[s]: 21878c Organisational Dialogue: Theory and Practice
These prerequisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject comprises two parts which deal with the fundamental principles of microeconomics and macroeconomics as they relate to business management. The microeconomics part of the subject examines the forces of supply and demand, consumer behaviour, the nature of production costs, price setting by firms in a range of market types, the rationale and ethical underpinnings of trade practice restrictions and the fundamental forces affecting international trade. The macroeconomics part of the subject is concerned with the larger scale aspects of the economic systems in which businesses operate. It examines the determinants of gross domestic product, the behaviour of the general price level and inflation, unemployment, and the forces that affect the general rate of interest. Attention is also given to the nature, ethical rationale and impact of government policies on the macroeconomic environment and business conditions.

23781 Readings in Economics
6cp
Postgraduate
Students wishing to enrol in this subject should seek the approval of the head of the Economics Discipline Group.

23787 Health Technology Assessment
6cp
Postgraduate
This subject provides knowledge of the context and methods of health technology assessment, particularly the use of health economics theory and methods, economic evaluation and clinical epidemiology in evaluating the implications of the introduction of new health care interventions, including procedures, diagnostic tests, devices and drugs. The subject covers how to define a health technology assessment question, identify appropriate data, methods of analysis and interpretation of results.

23845 Managerial Economics
8cp
Requisite[s]: 25841 Decision Making Tools
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces the theory of the firm and other major economic themes that provide students with an understanding of managerial decision-making. It outlines the economic forces that influence corporate strategy, enabling participants to acquire a range of skills and expertise expected of corporate managers. The outcomes are achieved using learning strategies that foster the application of leading-edge practices to meet the business challenges arising from international forces, and technical and knowledge innovation.

23907 Advanced Microeconomics
6cp
Honours
Advanced Microeconomics extends earlier training received by students in subjects such as Intermediate Microeconomics, Game Theory and Mathematical Economics by providing both stronger analytical foundations for the results and frameworks derived in those subjects, and by extending principles learned in them to new areas of analysis.

23908 Economic Modelling
6cp
Honours
Economic Modelling extends earlier training received by students in their economics major by introducing students to a selection of economic modelling approaches that are at the heart of modern economic research based on experimental and observational data. Specifically, it extends the set of topics covered to include methods for panel data analysis, instrumental variables, maximum likelihood estimations, and others.

23909 Thesis Proposal in Economics (Honours)
6cp
Honours
This subject trains students to conceptualise, develop and defend a research proposal on an original problem of a theoretical or applied nature in economics.

23910 Thesis in Economics (Honours)
18cp
Requisite[s]: 23909 Thesis Proposal in Economics (Honours)
Honours
The subject allows students to research and write a thesis on the proposal developed in Thesis Proposal in Economics (Honours). Students receive regular guidance and feedback from their thesis supervisors. The Honours thesis requires the student to produce a 20,000-word (maximum) thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner.

23917 Advanced Macroeconomics
6cp
Undergraduate
Advanced Macroeconomics extends earlier training received by students in subjects such as Macroeconomics: Theory and Applications and Economics of Money and Finance by providing both stronger analytical foundations for the results and frameworks derived in those subjects, and by extending principles learned in them to new areas of analysis. Specifically, it provides rigorous treatment of the microeconomic underpinnings of key macroeconomic phenomena such as investment and consumption. It also examines questions of economic growth and business cycles in some detail and provides a theoretical framework for discussion of macroeconomic policy.

23918 Economic Policy Seminar
6cp
Requisite[s]: 25921 Theory of Financial Decision Making AND 25917 Advanced Macroeconomics
These prerequisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject examines important recent developments in policy and regulation in the Australian economy. Frameworks are developed to understand and evaluate these developments, especially for Australian business. Developments studied include: the introduction of inflation targeting, medium term fiscal strategy; the Wallis Inquiry and financial regulation reform; national competition policy; and telecommunications policy.

23926 PhD Thesis: Economics
0cp
Postgraduate
Students must undertake original research, supervised by a senior member of the school’s academic staff. Students must prepare a proposal, present it and gain approval before proceeding. The thesis should advance knowledge in the area of economics, and should be of a standard publishable in an international refereed journal.

23930 Master of Business Thesis (Economics)
0cp
For subject description, contact the UTS Business School.

24100 Applied Project in Marketing (Capstone)
6cp
Requisite[s]: 24202 Consumer Behaviour AND 24309 Marketing Research AND 24415 Marketing Planning and Strategy AND two subjects from: 24210, 24223, 24222, 24224
These prerequisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
This subject allows students to apply the marketing knowledge they have gained in previous subjects to a real-world project. It provides them with an opportunity to utilise their research skills and advance their time management, project management and teamwork skills.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
24101 Applied Project in Marketing Communication [Capstone]  
6cp  
Requisite(s): 24202 Consumer Behaviour AND 24309 Marketing Research AND three subjects from: 59330, 24210, 24207, 24510, 59333  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject allows students to apply the marketing communication knowledge they have gained in previous subjects to a real-world project. It provides them with an opportunity to utilise their research skills and advance their time management, project management and teamwork skills.

24104 Emerging Marketing Issues and Social Media  
6cp  
Requisite(s): 24108 Marketing Foundations  
Undergraduate  
Marketing is a dynamic area of business that continues to evolve as a result of changes in technology, competitive landscape and consumer behaviour. This subject provides students with the opportunity to investigate marketing issues that emerge over time, and transform the way consumers and businesses respond to them. Topics surrounding social media and e-marketing are a particular focus of this subject.

24108 Marketing Foundations  
6cp  
Requisite(s): 26100c Integrating Business Perspectives  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject covers the basic principles of marketing. It develops an understanding of the overall process of marketing planning, implementation and control in the contemporary business environment and also develops a basic understanding of marketing information systems; market research and marketing ethics; market segmentation; buyer behaviour; product development; and the development of product, distribution, promotion and pricing strategies for both goods and services domestically and internationally.

24202 Consumer Behaviour  
6cp  
Requisite(s): 24108 Marketing Foundations  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
A clear understanding of consumer behaviour is critical for developing and evaluating effective marketing strategies. This subject provides a theoretical grounding in the field of customer behaviour examining both the internal and external human factors affecting behaviour and decision-making. It develops an awareness and understanding of customers as the central focus of marketing action, and discusses relevant theories developed in marketing, psychology and other behavioural sciences. This subject develops students' abilities to apply customer behaviour concepts to marketing problems.

Typical availability  
Autumn semester, City campus  
Spring semester, City campus  
Autumn semester, Kuring-gai campus  
Spring semester, Kuring-gai campus  
Autumn semester, Kuala Lumpur  
Spring semester, Kuala Lumpur

24205 Business-to-Business Marketing  
6cp  
Requisite(s): 24108 Marketing Foundations  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
The marketing of industrial goods and services poses some unique challenges. This subject provides an integrated managerial and strategic approach that places industrial goods and services issues within a broader general management marketing context and addresses the need for business marketers not only to understand buyer needs and behaviors, but also how to use these insights to develop strategies for competing effectively in the marketplace. Organised around a strategic marketing framework, this subject develops the knowledge and skills to develop and implement an effective business marketing strategy.

Typical availability  
Autumn semester, City campus

24206 Interactive Communication and Customer Behaviour  
6cp  
Requisite(s): 24108 Marketing Foundations  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject focuses on understanding the various ways consumers utilise the Internet and the external and internal influences on their behaviour. It provides an understanding of the role of traditional forms of marketing communication as well as various forms of interactive communication in the building of long-term customer relationships.

24207 Media Planning  
6cp  
Requisite(s): 24210 Integrated Marketing Communications  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject focuses on the important role of media planning in the development of an organisation's marketing communications activities. It provides an understanding of the media planning process and strategic decision-making behind media selection in successful advertising campaigns. It also provides both a theoretical and practical approach to media planning.

24210 Integrated Marketing Communications  
6cp  
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject examines all aspects of integrated marketing communications from an advanced viewpoint based on theory and research findings. It provides managers with systematic approaches to setting marketing communications objectives, establishing budgets, identifying relevant target audiences, formulating and testing strategies and evaluating campaign results. It considers contemporary issues in advertising, together with reference to complementary aspects such as publicity and direct marketing and includes an applied project covering these decision factors.

Typical availability  
Autumn semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
24220 International Marketing
6cp
Requisite(s): 24108 Marketing Foundations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject develops an understanding of marketing influences on demand for products and services in international environments. This involves consideration of cultural, political, legal and other environmental forces that facilitate or hinder exchanges among diverse sellers and buyers. Students learn different strategies that could be used in an international context to meet the needs and wants of diverse customers while concurrently enabling international marketers to achieve their goals and objectives.

Typical availability
Summer session, City campus
Spring semester, China
Spring semester, Kuala Lumpur
Spring semester, Kuring-gai campus
Autumn semester, City campus
Autumn semester, Kuala Lumpur
Spring semester, City campus

24222 Marketing Channels
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject develops the knowledge and skills to design, develop, maintain and manage effective relationships among worldwide marketing channels to achieve sustainable competitive advantage by using strategic and managerial frames of reference.

24223 New Product Marketing
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject provides future new product managers, project managers and team leaders with a comprehensive set of knowledge and skills to manage new product development processes including how to develop an effective development strategy, and generate and evaluate concepts. It offers a managerial focus, with an emphasis on understanding the issues and solving the problems by implementing a variety of state-of-the-art methods and perspectives, and integrates marketing, R&D, production engineering, and financial aspects of new product design and marketing.

24224 Pricing Strategies and Tactics
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
Pricing directly affects a firm’s bottom line. It is through pricing that managers can affect revenues and profit. This subject builds the required knowledge and competencies so that managers can generate revenues through the development of profitable value-oriented pricing strategies and tactics.

24306 Services Marketing
6cp
Requisite(s): 24108 Marketing Foundations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject enables students to broaden their understanding of marketing by focusing on the marketing of services. Services dominate the global economy and are becoming critical for competitive advantage in organisations across the world and in all industry sectors. Services require a distinctive approach to marketing strategy, both in its development and execution. The subject explores the foundations of services marketing and teaches students how to create, promise, and deliver a successful, interactive customer experience.

Typical availability
Spring semester, City campus

24309 Marketing Research
6cp
Requisite(s): [24108 Marketing Foundations AND (26133 Business Information Analysis OR 26134 Business Statistics)]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject covers the basic marketing research procedures including analytical and interpretive skills that allow marketing analysts and managers to carry out and evaluate practical and useful marketing research. It develops an understanding of the overall process of marketing research design, implementation and control in the contemporary business environment and also develops a basic understanding of data collection and analysis techniques. Students undertaking this subject develop skills necessary for careers in analytical or research fields.

Typical availability
Autumn semester, City campus

24331 Marketing Analytics and Decisions
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour AND 24309 Marketing Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
Several forces are transforming the structure and content of the marketing profession. Marketers are seeing increasingly faster changes in the marketplace and are barraged with an ever increasing amount of information. While many view traditional marketing as art, some view it as a science, the new marketing increasingly looks like engineering. This subject, combined with a comprehensive collection of leading-edge software models, provides the marketers with the know-how and tools to collect the right information and perform analysis to make better marketing plans, better product designs and better decisions. Taking this subject assists in translating concepts into context-specific operational decisions and actions using analytical, quantitative and computer modelling techniques; linking theory to practice and practice to theory.

Typical availability
Autumn semester, City campus

24415 Marketing Planning and Strategy
6cp
Requisite(s): 24108 Marketing Foundations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject covers the knowledge and skills necessary to create and sustain superior performance in the marketplace through market-led strategic management. It focuses on the essential issues in strategy, such as opportunity identification, strategy formulation and strategy implementation. There is almost never one right answer to a business...
scenario, but strong analysis skills always deliver a much better set of answers than weak analysis skills. The subject develops a competence to develop marketing within organisations as a strategic force rather than just as an operational department.

24440 International Promotion and Advertising
6cp
Requisite(s): 24108 Marketing Foundations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject helps students acquire an understanding of the complexities which surround the successful undertaking of promotional and advertising campaigns overseas, with particular reference to the roles of promotion intermediaries, promotion infrastructure, legal impediments and government involvement. In-depth study is undertaken of the appropriateness of different forms of promotion according to the market, the product/service offered and the situation of the supplier. The subject enables students to acquire an understanding of the way in which advertising campaigns need to be modified to suit overseas markets; and develops an appreciation of the various forms of promotion which are appropriate to developing international business.

24510 Advertising Research
6cp
Requisite(s): 24202 Consumer Behaviour AND 24309 Marketing Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
In this subject students undertake a multi-stage group project that initially involves target market research. It later involves advertising strategy and executional development followed by advertising research to determine the effectiveness of those executions. It finally involves presentation of validated campaign recommendations. Students must attend the first class to be included in a consultancy team.

24667 Qualitative Research
6cp
Requisite(s): 24309 Marketing Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
Qualitative research is a growth area in both academic and commercial marketing research. This subject introduces students to a different methodological approach from that which is commonly emphasised in market research subjects. Alternative research designs are considered, along with the associated instrumentation, data collection and analysis. Communication of results for a range of academic and industry audiences is also considered.

24668 Professional Relationship Selling
6cp
Requisite(s): 24108 Marketing Foundations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject addresses the key issues relating to the role of a business-to-business salesperson. Topics include the psychology of selling, the role of the sales professional in uncovering customer and competitor intelligence, the sales process, relationship selling and self-management and motivation. The importance of ethical selling practices with respect to the firm, the customer and society is highlighted.

24703 Marketing and International Trade Relations
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject assists students in acquiring an understanding of the influence governments can have on doing business overseas; develops an ability to evaluate the opportunities and constraints on marketing overseas that arise from international trade relations activities; and creates an awareness of the procedures involved when business persons seek to secure the support of governments to improve access and overcome barriers to the entry of their products and services overseas.

24705 Marketing Projects and Services Overseas
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject enables students to acquire an understanding of the complexities that surround the successful negotiation of project work overseas from a marketing perspective, with particular reference to the roles of governments, aid agencies, financial institutions and multilateral bodies. It covers the ‘packaging’ of the project proposal, strategic alliance possibilities and the marketing of the proposal to those influencing the award of the project. It develops an understanding of the differences between marketing services in Australia and marketing services overseas. It also develops the ability to evaluate the opportunities and constraints facing Australian firms endeavouring to market services overseas, both in general and with specific reference to education, health, legal services, accounting services, insurance, tourism and intellectual property.

24706 Strategic Services Marketing
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The marketing of services poses some unique challenges. This subject provides an integrated managerial and strategic approach that places services issues within a broader general marketing management context and addresses the need for service marketers not only to understand customer needs and behaviours, but also how to use these insights to develop strategies for competing effectively in the marketplace. Organised around a strategic marketing framework, this subject develops advanced knowledge and practical competencies to develop and implement an effective services marketing strategy.

Typical availability
Autumn semester, City campus

24707 Strategic Business Marketing
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The marketing of industrial goods and services in business-to-business contexts poses unique challenges. This subject provides an integrated managerial and strategic approach that places industrial goods and services issues within a broader general marketing management context and addresses the need for business marketers not only to understand buyer needs and behaviors, but also how to use these insights to develop strategies for competing effectively in the marketplace. It covers topics including value generation in
business-to-business contexts, value gap analysis, building business networks, and developing, implementing and coordinating business-to-business marketing programs. Organised around a strategic marketing framework, this subject develops advanced knowledge and practical competencies to develop and implement an effective business marketing strategy.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**24710 Buyer Behaviour**
6cp
Postgraduate
This subject focuses on the issues relating to the understanding of customer behavior and on the application of such understanding to marketing practice. Topics include: individual determinants such as perception, learning and memory, motivation, personality and attitudes, as well as environmental influences such as culture and cross-cultural issues, social influences, social class, and situational influences, and the decision-making process.

**24713 Marketing Channel Management**
6cp
Requisite(s): [24734 Marketing Management OR 24746 Marketing: Concepts and Applications] AND 24710 Buyer Behaviour
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops advanced knowledge and practical competencies to design, develop, maintain and manage effective relationships among worldwide marketing channels to achieve sustainable competitive advantage by using strategic and managerial frames of reference.

**24716 Research Project in e-Business Marketing**
6cp
Requisite(s): 24737 e-Business Marketing
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
Students engage in an in-depth field investigation of an electronic marketing initiative in a specific industry environment. Appropriate research methodologies are evaluated and applied to the project.

**24720 Marketing Research**
6cp
Postgraduate
This subject provides a comprehensive account of the marketing research process, from problem recognition and definition through all the procedural steps of finding and recommendations for marketing decision-making. Specific treatment of the nature, role and management of marketing information in a corporate setting provides a basis for discussion and development of research methodology. Topics covered include a fundamental component of the marketing process; the generation and management of the marketing information resources of an organisation. In this sense, the subject is critical to discussion of specific, functional decision areas of marketing in other subjects in the course. The practical emphasis further contributes to the student's understanding of the problems and potentials inherent in the collection and analysis of marketing data.

**24723 Business to Business e-Marketing**
6cp
Requisite(s): 24737 e-Business Marketing
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The rapid emergence and deployment of business-to-business electronic business infrastructure poses significant challenges for marketers. This subject provides students with an awareness of developments and issues associated with the rollout of business-to-business electronic business systems, with frameworks to critically analyse them in relation to business-to-business marketing issues such as specialised communication modes, negotiation, sales management, relationship marketing and relationship management.

**24727 Electronic Business and Marketing**
8cp; availability: Executive MBA (C004031) students only
Postgraduate
This subject introduces students to emerging electronic business environments. An overview of the technological elements of electronic environments is presented, with emphasis on the development of and participation in electronic marketplaces. Using the Internet as an exemplar for emerging electronic business, students are introduced to electronic business models, concepts and tools. Students gain substantial first-hand experience in researching, communicating and developing their own electronic business and marketing initiatives within the World Wide Web. There is an emphasis on organisations rethinking ways that build relationships directly with customers. Students explore, at an introductory level, legal, social and organisational issues related to the development of virtual communities and corporations within emerging electronic environments.

**24730 Marketing Strategy**
6cp
Requisite(s): 24734c Marketing Management AND 24710c Buyer Behaviour AND 24720c Marketing Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers advanced knowledge and practical competencies to create and sustain superior performance in the market place through market-led strategic management. It focuses on the two essential issues in marketing strategy formulation: the identification of target markets and the creation of a differential advantage. The subject develops a competence to develop marketing within organisations as a strategic force rather than just as an operational department.

**24734 Marketing Management**
6cp
Requisite(s): 21878c Organisational Dialogue: Theory and Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject focuses on the issues relating to the management of effective, ethical, sustainable marketing strategies, marketing mix plans, and tactics for profit and non-profit organisations across various types of industries. Topics include: the role of the marketing functions in current organisations, understanding customers, collection and use of market information, developing marketing strategies and implementation plans, and integration of the marketing function with other functional disciplines within the organisation.

**24736 Marketing Communications**
6cp
Requisite(s): [24734 Marketing Management OR 24746 Marketing: Concepts and Applications] AND 24710 Buyer Behaviour
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines advertising, promotion and business communication decisions from an advanced viewpoint based on theory and research findings. It provides managers with systematic approaches to setting advertising and promotion objectives, establishing budgets, identifying relevant target audiences, formulating and testing strategies and evaluating campaign results. It considers contemporary issues in advertising, together with reference to complementary aspects such as publicity and direct marketing and includes an applied project covering these decision factors.
24738 Strategic International Marketing
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
The marketing of goods and services across cultures and in different international environments poses some unique challenges. This subject provides an integrated managerial and strategic approach that places international issues within a broader general marketing management context and addresses the need for international marketers not only to understand customer needs and behaviours but also how to use these insights to develop strategies for competing effectively in the marketplace. Organised around a strategic marketing framework, this subject develops advanced knowledge and practical competencies to develop and implement an effective international marketing strategy.

Typical availability
Summer session, City campus

24742 New Product Management
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
This subject has been designed to enable students to develop an in-depth understanding of the processes, philosophies and concepts associated with new product management in contemporary organisations. Although the focus is on new products, the forces driving the process stem from the need for organisations to remain relevant, effective and competitive in a dynamic environment. While the subject matter is primarily from the field of marketing, the nature of successful product and growth management requires sensitivity to other fields of study such as strategic management, finance, manufacturing, information technology and organisational behaviour in order to effectively guide the process. This subject requires students to explore the various fields of study and examine research as a basis for building a strong, practically oriented capability for new product management.

Individual and team projects have been designed into the subject which require students to come to terms with the applied aspects of new product management. Students own work experiences also greatly facilitate class discussion and debate on the topic.

24750 Marketing Analytics
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
Several forces are transforming the structure and content of the marketing profession. Marketers are seeing increasingly faster changes in the marketplace and are barraged with an ever increasing amount of information. While many view traditional marketing as art and some view it as science, the new marketing increasingly looks like engineering. This subject, combined with a comprehensive collection of leading-edge software models, provides the marketers with the know-how and tools to collect the right information and perform analysis to make better marketing plans, better product designs, and better decisions. This subject assists in translating concepts into context-specific operational decisions and actions using analytical, quantitative, and computer modelling techniques; linking theory to practice and practice to theory.

24756 Philosophy of Science
6cp
Postgraduate
This subject develops an understanding of the philosophy of science and associated implications for theory developments. It helps students develop advanced skills that are critical to both knowledge generation in business theory and problem solving in business practice.

24757 Research Methodology and Data Analysis Tools
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate
This subject addresses comprehensive and practical considerations of research methodology, data characteristics and processing, multivariate data analysis approaches (statistical considerations and applications), and communication of marketing research results. It helps students develop advanced research skills that are critical to both knowledge generation in marketing theory and problem solving in marketing practice.

24758 Readings in Marketing
6cp
Postgraduate
This subject allows students to undertake a program of reading in a specified area of marketing under the direction of a supervising lecturer. Specific areas of study may vary from semester to semester and depend on availability of supervisory staff. Students meet regularly with the supervising lecturer to discuss reading content, and students must write a major paper as the assessment task, as directed by the supervisor.

24759 Research Design and Data Collection Tools
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate
This subject covers an advanced consideration of the management of the marketing research process, research designs, sources of marketing data, qualitative and quantitative data collection procedures, measurement, scaling, and questionnaire design. It is a research-focused subject with a strong emphasis on the development of advanced research skills that are critical to knowledge generation in marketing theory, research-driven academic and commercial activities, and problem solving in marketing practice.

24760 Pricing and Revenue Management
6cp
Requisite(s): 24734 Marketing Management OR 24746 Marketing: Concepts and Applications

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
Managers too often rely on heuristics when setting prices and stay away from rigorous analysis. Pricing, however, directly affects a firm’s bottom-line. It is through pricing that managers can affect and maximise revenues and profit. This subject builds the required knowledge and competencies so that managers can generate revenues through the development of profitable value-oriented pricing strategies and tactics.
24770 Thesis in Marketing (Honours) 1
6cp
Undergraduate
This subject requires the student to produce a written thesis research proposal of about 6000 words that forms the basis of the research to be carried out in 24771 Thesis in Marketing (Honours) 2. Students are allocated an academic supervisor from within the School of Marketing, with whom they meet regularly throughout their enrolment in the subject. The subject develops the student’s competency in carrying out a critical review of the literature, choosing appropriate research methodologies, and the writing of the research proposal.

24771 Thesis in Marketing (Honours) 2
18cp
Requisite[s]: 24770 Thesis in Marketing (Honours) 1
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject requires the student to complete and present a 20,000-word (maximum) thesis based on an original marketing problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner. The topic may be derived from any marketing-related area. The replication and extension of a published academic marketing article could also be considered.

24780 Readings in Marketing
6cp
Postgraduate
This subject is undertaken under the direction of a member of staff. The topic must be approved by the head of the School of Marketing. Formal lectures in selected areas may be required, as directed by the supervising lecturer. The subject allows a degree of flexibility in programming for specialised needs of individual students, but can only be undertaken as part of the Master of Business in Marketing program. Topics chosen should be related to other subjects within the student’s area of specialisation.

24790 Business Project: Marketing
6cp
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is a simulated business consultancy project that allows students to investigate a specific business activity related to marketing, using a company of the student’s choice. It covers many aspects of marketing, marketing strategy and specialist marketing subjects. Students are required to apply a range of marketing and non-marketing theories already covered in their degree.

24791 Business Project: International Marketing
6cp
Requisite[s]: 24734 Marketing Management OR 24746 Marketing: Concepts and Applications
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This is a capstone subject for the Master of Business in International Marketing. It is designed to enable students to apply the range of skills and knowledge gained in the rest of the course. Students are required to conduct a project on international marketing related to a particular organisation. It is an alternative to 24755 Applied International Marketing Research.

24800 Managerial Marketing
8cp
Postgraduate
Managerial Marketing allows students to develop and execute a marketing strategy for their simulated firm, including product and brand management, research and development, pricing, distribution, and sales force management. The setting for the simulation is a technology-based industry in which teams initiate operations for their firm and receive information on customer needs, customer satisfaction with brands, prices and products. Simulation participants learn to interpret competitors’ tactics and how to adjust their firm’s marketing strategy to stay ahead of the competition. The consequences of team actions on both brand profitability and firm profitability become apparent throughout the simulation.

24807 Marketing Strategy in Practice
8cp
Postgraduate
This is a highly personalised subject that brings students’ classroom learning back to their companies. The project provides an opportunity for candidates to investigate a specific marketing issue faced by their employer (or a firm of their choice), to create competitive advantage in their markets and to add value to their organisations. This life-long learning process starts during classroom sessions and continues after the subject has concluded. Individuals conduct a strategic marketing analysis on their chosen organisation and solicit guidance on marketing issues from their faculty advisers. This process facilitates the development of a valuable, new competitive marketing strategy for each candidate’s chosen firm.

24808 Advanced Marketing Strategies
8cp
Requisite[s]: 24807 Marketing Strategy in Practice
There are also course requisites for this subject. See access conditions.
Postgraduate
Marketing theory and practice evolve constantly, with new frameworks and tools being developed. This subject provides an overview of the most current marketing thinking and illustrates how recent advances can be applied to the workplace to create value for organisations. It develops general management competencies so that decisions concerning marketing can be made more confidently.

24901 Philosophy of Science and Theory
6cp
Undergraduate
This subject introduces the basics of scientific method and shows how to apply it to the evaluation and development of business theory in teaching, practice and research. The evolution of business thought is used as the primary way of considering what business theories there are, their quality and their usefulness in progressing research in business.

24902 Research Methodology and Data Analysis Techniques
6cp
Requisite[s]: 24108 Marketing Foundations AND 24202 Consumer Behaviour AND 24309 Marketing Research AND 24908 Research Design and Data Collection Techniques
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject addresses comprehensive and practical considerations of research methodology, data characteristics and processing, multivariate data analysis approaches (statistical considerations and applications), and communication of marketing research results. It helps students develop advanced research skills that are critical to both knowledge generation in marketing theory and problem solving in marketing practice.

Typical availability
Autumn semester, City campus

24903 Readings for Thesis in Marketing (Honours)
6cp
Undergraduate
This subject provides an opportunity to engage in a structured literature review to assist in selecting a thesis topic. It improves awareness of up-to-date research in marketing by exploring current research activities of recently published authors.
24907 Research Management and Strategy Techniques
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour AND 24309 Marketing Research
Undergraduate
This subject addresses the integration of all aspects of marketing research into comprehensive plans and courses of action. It includes aspects of project planning, design and execution including client service and management. It helps students develop advanced research skills that are critical to both knowledge generation in marketing theory and problem solving in marketing practice.

24908 Research Design and Data Collection Techniques
6cp
Requisite(s): 24108 Marketing Foundations AND 24202 Consumer Behaviour AND 24309 Marketing Research
Undergraduate
This subject covers an advanced consideration of the management of the marketing research process, research designs, sources of marketing data, qualitative and quantitative data collection procedures, measurement, scaling and questionnaire design. It helps students develop advanced research skills that are critical to both knowledge generation in marketing theory and problem solving in marketing practice.

Typical availability
Autumn semester, City campus

24982 PhD Thesis: Marketing
6cp
Postgraduate
Students must undertake original research, supervised by a senior member of the school's academic staff. Students must prepare a proposal, present it and gain approval before proceeding. The thesis should advance knowledge in the area of marketing, and should be of a standard publishable in an international refereed journal.

24990 Master of Business Thesis (Marketing)
6cp
Undergraduate
Students are required to complete a thesis which is considered to involve an amount of study equivalent to four semesters for full-time study, and six semesters for part-time study. The thesis is expected to present original research of a theoretical or applied nature in marketing. It is not expected to advance knowledge, as is required in the case of a PhD thesis, but it should give evidence of the student's ability to engage in a substantial investigation, identify and analyse research problems and present the results in a coherent and scholarly manner.

25005 Economics and Finance of the Life Cycle
6cp
Requisite(s): [25567 Intermediate Microeconomics OR 25562 Economics of the Firm OR (25503 Investment Analysis AND [25566 Economics for Business 2 OR 25555 Macroeconomics: Theory and Applications])]
Undergraduate
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Economics and Finance of the Life Cycle examines the management of wealth across the life cycles of individuals and households. Unlike corporations and economies, individuals typically plan their spending and saving within a lifetime frame, deciding on education, workforce participation, asset acquisition, retirement and bequests. These decisions are made within the context of national retirement savings systems. Standard investment risks are complicated by uncertain human capital, uncertain longevity and health risks, among other factors. Economics and Finance of the Life Cycle develops a theoretical framework for managing lifetime wealth in a risky environment.

25050 Financial Valuation and Strategy
6cp
Further information on this subject is available from UTS: Business.

25052 International Banking Management
6cp
Further information on this subject is available from UTS: Business.

25053 International Financial Management
6cp
Further information on this subject is available from UTS: Business.

25208 Advanced Financial Planning
6cp
Requisite(s): 2503 Investment Analysis AND 25415 Personal Financial Planning
Undergraduate
This subject introduces students to the process of developing and implementing a range of personal financial plans designed to meet the needs of a range of personal investors within a contemporary social, economic, legal and regulatory context.

25230 Thesis in Mathematics and Finance (Honours) 1
6cp
Undergraduate
The Honours Thesis requires the student to produce a thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner. This is the Autumn semester course of the year-long subject. The same grade will be awarded to this subject and 25231 Thesis in Mathematics and Finance (Honours) 2, its Spring semester counterpart.

25231 Thesis in Mathematics and Finance (Honours) 2
6cp
Requisite(s): 25230 Thesis in Mathematics and Finance (Honours) 1
Undergraduate
There are also course requisites for this subject. See access conditions.

25300 Fundamentals of Business Finance
6cp
Requisite(s): 26100c Integrating Business Perspectives
Undergraduate
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

25409 Managing Financial Institutions
6cp
Requisite(s): 25556 The Financial System
Undergraduate
This subject teaches the fundamentals of managing a financial institution. The principles are applied in the context of banks, but have a wider relevance to the management of non-bank financial institutions. The structure of the financial system and problems posed by managing financial institutions in today’s environment are...
given real-time practical applications in case studies which assess the
performance of financial institutions from a creditor's, investor's and
regulator's viewpoint. Case studies of bank failure and success are
interposed among principles of asset liability management, strategic
planning and responses to a changing environment in prudential
supervision, e-commerce and new taxation treaties.

25410 Corporate Financial Analysis (Capstone) 6cp
Requisite[s]: [25557 Corporate Finance: Theory and Practice
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
This subject examines the use of financial statements in assessing a
firm's financial health, its strengths, weaknesses, recent performance
and future prospects. It examines financial statement forecasting
and modelling with an emphasis on cash flow reconstructions from
financial statements. Special issues dealing with financial statement
information are emphasised in some depth. These issues include:
market efficiency, asset pricing, corporate restructuring and business
valuation, debt ratings and financial distress.

25415 Personal Financial Planning 6cp
Requisite[s]: [25300 Fundamentals of Business Finance AND (26134
Business Statistics OR 26133 Business Information Analysis) AND
25115 Economics for Business]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject provides an introduction to the theory and practice
relevant to the management of personal financial risks. It provides
an understanding of the fundamental techniques and analytical tools
used in this process and identifies strategies suitable for securing both
short and longer-term objectives in a dynamic social, economic and
regulatory environment.

25421 International Financial Management 6cp
Requisite[s]: [25557 Corporate Finance: Theory and Practice
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject introduces students to the concepts of international
finance and the financial management of international businesses.
Topics covered include foreign exchange, global financial markets,
foreign exchange risk and its management, and financial decision-
making techniques used by international business. Areas considered
include trade finance, multinational working capital management,
direct foreign investments and global financing.

25491 Investment Analysis and Risk Management 6cp
Requisite[s]: [25300 Fundamentals of Business Finance
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject develops a set of tools for making investment and risk
management decisions. It introduces the pricing of financial securities
and derivatives and provides a foundation for analysing risk and
return of financial assets. The topics covered include risk and risk
aversion, portfolio optimisation, the pricing of equities, bonds, and
derivative contracts. Students learn to use derivative contracts to
manage investment risks.

25503 Investment Analysis 6cp
Requisite[s]: [25556 The Financial System AND (35151 Introduction
to Statistics AND 35102 Introduction to Analysis and Multivariable
Calculus) OR 25622 Quantitative Business Analysis]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject introduces the conceptual and theoretical framework
of the portfolio approach to investments. It applies the techniques
of mean variance diversification to investment management. Asset
pricing models and their application to investment management are
reviewed. Other topics covered include bond portfolio management
and use of derivatives in an investment portfolio.

25522 Financial Services and Products 6cp
Requisite[s]: [25556 The Financial System
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject teaches the fundamentals of lending practice and the
provision of other financial services which equips students for entry
into banking and other financial institutions that provide financial
services. Areas covered include: managing loans and the loan
portfolio; the importance of the loan policy; commercial lending; credit
analysis; agricultural finance; consumer credit and consumer credit
regulation; the changing nature of financial services delivery; project
finance; trade finance; international banking; merchant banking; funds
management; insurance; and e-commerce.

25556 The Financial System 6cp
Requisite[s]: [25300 Fundamentals of Business Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
The aim of this subject is to develop an understanding of the operations
of a modern financial system, covering its payment, financing and
market-risk management activities. Its main topic areas are financial
institutions, financial markets (such as stocks, bonds and foreign
exchange) and derivatives (such as futures and options).

25557 Corporate Finance: Theory and Practice 6cp
Requisite[s]: [2503 Investment Analysis
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject develops the concepts of corporate finance introduced
in 25300 Fundamentals of Business Finance. This includes an
examination of analytical techniques used in capital budgeting
decisions and the capital structure decisions. Capital structure,
estimation of the cost of capital and the dividend decision are
examined from an empirical and theoretical viewpoint. The effects
of working capital management policy and international finance on
the value of the firm are also considered.

25558 Issues in Corporate Finance 6cp
Requisite[s]: [25557 Corporate Finance: Theory and Practice
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Undergraduate
This subject explores advanced topics in corporate finance. Specific
issues covered include the impact of taxation, agency conflicts and
option pricing theory on corporate financial decisions; new-start
valuation and financing; takeovers, mergers and acquisitions; and
corporate restructuring.
25573 Time Series Econometrics

6cp
Requisite(s): (25503 Investment Analysis AND 25622 Quantitative Business Analysis OR 25353 Regression Analysis) OR 25571 Introductory Econometrics
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Time Series Econometrics equips students with a general knowledge of model building, which stands them in good stead for basic empirical work in business environments. It provides the analytic tools required for further study in time series econometrics. The approach to modelling, and the reasoning about multi-variable empirical relationships, strengthens students' analytic skills.

25576 Commercial Bank Management

6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides a detailed examination of the fundamentals of the management, risk, regulation and operation and performance of a commercial bank. The subject examines the theoretical concepts underpinning the operation of commercial banking in the form of financial intermediation and the unique role of banks in the economy. The structure of the financial system and problems posed by managing commercial banks in today's environment are given real-time practical applications that assess the performance of financial institutions from a creditor's, investor's and regulator's viewpoint.

In addition, the subject covers international banking and regulation. While the focus of the course is commercial banks, that is regulator registered banking institutions, a number of the concepts covered also have suitable application to other non-bank institutions.

25575 Investment Banking

6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides an accessible introduction to the literature on recent developments in the services and transactions provided by investment banks. It provides a complete, yet concise, synthesis of the recent available literature within a logical, analytical structure. It provides important discussions of the theoretical and empirical literature in the major areas of investment banking, namely mergers and acquisitions, security issuance, financial engineering and international investment. The subject draws on the experience and expertise of senior industry practitioners.

25576 Wealth Management

6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject examines the investment and financial issues arising from the personal wealth management activities of private individuals. The subject commences with an introduction of the Australian financial planning industry, and then explores the most important components in personal wealth management – setting financial plans, budgeting, taxation planning, investment planning and strategies (including managed funds), risk management and insurance, consumer credit, home ownership and property investment, superannuation and social security, leveraged investments, and estate planning. Students should be able to develop and manage financial plans of hypothetical clients that meet specific goals and long-term objectives.

25577 Behavioural Finance

6cp
Requisite(s): 25577 Corporate Finance: Theory and Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Behavioural Finance is concerned with the psychology of market participants (i.e. cognitive psychology) and how they make decisions. In addition, the 'limits to arbitrage' is also addressed in explaining how and why markets can exhibit inefficiencies. Behavioural finance has been motivated due to concerns over traditional models and their reliance on rationality of decision makers, utility maximisation and the assumption that markets set efficient prices. As a result, behavioural finance has been considered as an alternative to better understanding agents’ activities and anomalies in security returns.

25578 Corporate Governance and Executive Compensation

6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides an accessible introduction to the literature on recent developments in internal corporate governance, and a complete, yet concise, synthesis of the recent available literature within a logical, analytical structure. It provides important discussions of the theoretical and empirical literature in the major areas of internal corporate governance, namely the international regulatory governance requirements, the relationship between governance and firm performance, ownership structure as a governance device, the role of incentive aligning executive compensation systems in corporate governance and pay-performance relationships, and the relationship between governance and financing and dividend policies. The subject draws on the experience and expertise of senior industry practitioners.

25579 Applied Portfolio Management

6cp
Requisite(s): 25620 Derivative Securities
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides students with an in-depth understanding of both the theoretical and the practical aspects of modern portfolio management. In terms of theory, students learn about the portfolio management process, the various asset classes at a fund manager's disposal, the role of diversification in portfolio management, the asset allocation and asset selection decisions, the use of financial derivatives in portfolio management and the fiduciary responsibilities of a fund manager. The practical aspects of the subject involve implementing and evaluating various asset price models for constructing efficient portfolios, implementing models for equity valuation, using the Black-Scholes option pricing formulae for portfolio insurance, and a substantial simulated portfolio management exercise, using historical price data.

25602 Ethics in Finance

6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

Ethical practices instil a public trust in the fairness of markets, allowing them to function efficiently. Additionally, ethical practices by finance and investment professionals benefit all market participants and stakeholders and lead to increased investor confidence in global capital markets. The perspectives acquired in this subject are useful to students in their place of work as a framework for ethical conduct in the investment profession is presented by focusing on the CFA Institute Code of Ethics and Standards of Professional Conduct. Citing examples of the scandals that have shaken public confidence in the ethics of Wall Street, this subject explains the importance of ethics in the operation of financial institutions and in the personal conduct of finance professionals.

Access conditions are available in the individual subject descriptions in the online handbook.
25606 Financial Time Series
6cp
Requisite(s): [25906 Portfolio Theory and Investment Analysis (Advanced) OR 25503 Investment Analysis] AND 25557 Corporate Finance: Theory and Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
A number of theoretical models have been developed in the area of corporate finance. Students have been exposed to the major models in preceding subjects. This subject investigates the techniques that are required to empirically test these models and conducts a number of empirical tests using Australian financial markets data.

25620 Derivative Securities
6cp
Requisite(s): 25503 Investment Analysis
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: algebraic manipulations, basic elements of statistics (mean, variance, covariance and correlation), abstract mathematical concepts, basic principles in finance (time value of money and risk-adjusted discount rates)
Undergraduate
This subject provides students with a basic understanding of forwards, futures, swaps and options. It covers their valuation by arbitrage arguments, their use and the management of the associated risks. A large part of this subject is devoted to applied problems dealing with situations in which students may expect to encounter derivations in practice.

25622 Quantitative Business Analysis
6cp
Requisite(s): 25115 Economics for Business AND ((26134 Business Statistics OR 26133 Business Information Analysis) OR (33130 Mathematical Modelling 1 AND 33230c Mathematical Modelling 2))
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Quantitative Business Analysis provides students with skills essential for studying finance subjects offered by the School of Finance and Economics. Students learn basic mathematics and statistics, and consolidate their knowledge and skills in the context of real world finance problems. The focus of the subject is on the development of practical modelling skills.

25705 Financial Modelling and Forecasting
6cp
Requisite(s): 25742 Financial Management OR 25746 Financial Management: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The subject allows students to develop an understanding of the issues involved when forecasting in an uncertain world. Students apply statistical methods to identify an appropriate forecasting model and then develop and evaluate the forecasts for use in a typical financial analysis problem.

25721 Investment Management
6cp
Requisite(s): 25742 Financial Management OR 25746 Financial Management: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is designed to provide an understanding of the investment process and to develop a set of tools for making investment and portfolio decisions. It provides an overview of the paradigms of modern portfolio theory, and a foundation for analysing the risks and returns of investment portfolios. Specific topics include the measurement of risk and return, the construction of efficient portfolios, the pricing of risk, equity valuation, market efficiency and investor behaviour.

25728 Bond Portfolio Management
6cp
Requisite(s): 25721 Investment Management OR 25741 Capital Markets
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This is a specialised subject focusing on the conceptual and theoretical aspects of interest rates and risk management in bond markets. The subject includes discussions of the term structure of interest rates, bond pricing and bond portfolio strategies. The subject includes a large applied component involving the construction of yield curves and the analysis of bond market data, as well the construction and management of bond portfolios.

25729 Applied Portfolio Management
6cp
Requisite(s): 25721 Investment Management OR 25741 Capital Markets
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is concerned with the process of constructing and managing a diversified institutional portfolio comprising stocks, fixed-income securities, real and alternative assets, and derivatives. It begins by reviewing the foundations of investment management before continuing to the topics of equity and fixed-income portfolio management. Less traditional asset classes, such as investment companies, exchange-traded funds, real estate, hedge funds and private equity, are also examined. Finally, considerable attention is given to the important issues of asset allocation and performance measurement and attribution.

25731 International Finance
6cp
Requisite(s): 25742 Financial Management OR 25746 Financial Management: Concepts and Applications
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines foreign exchange markets, multinational working capital, international investments and the financing of international operations. On completion, students are able to understand how firms operate in the international financial environment.

25732 Venture Capital and Private Equity: Theory and Practice
6cp
Requisite(s): 25765 Corporate Finance
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an overview of the venture capital and private equity industry and an accessible introduction to the literature on recent developments in venture capital and private equity investments. It provides particular perspectives on the three major areas of venture capital and private equity: fundraising, investing and exit strategies. The subject draws extensively on the experience of senior industry practitioners who use their experience to provide students with insights into real-world venture capital and private equity decision-making processes. The subject also makes extensive use of the case study approach to teaching and learning, focusing on US and Australian venture capital and private equity investment cases in weekly class discussions.
25741 Capital Markets
6cp
Postgraduate
This subject examines the structure and behaviour of Australia’s financial system and its main components. Its principal topics are the instruments and processes through which financing is arranged, the pricing of instruments and the associated risks and their management with derivatives. The subject forms part of the finance specialisation in the MBA and Master of Business degree programs where it provides a preparation for more specialised subjects in investment management, international finance and the various subjects that deal with financial institutions and risk management.

25742 Financial Management
6cp
Requisite(s): 21878c: Organisational Dialogue: Theory and Practice
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject aims to introduce students to finance and helps them acquire the basic analytical skills required to make informed financial decisions. Topics include the goals of financial management, introduction to security market regulation, ethics and the firms investment and financing decisions. Working capital management and international aspects of financial management are also introduced.

25743 Corporate Financial Analysis
6cp
Requisite(s): [22747 Accounting for Managerial Decisions OR 22784 Accounting: Concepts and Applications] AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops students’ abilities to conduct corporate financial analysis both for lending and investment purposes. Students perform industry analysis, identify participants’ motivations and accounting deficiencies, forecast financial statements and value companies.

25751 Financial Institution Management
6cp
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject teaches the fundamentals of managing a financial institution. The principles are applied in the context of banks, but have a wider relevance to the management of non-bank financial institutions. The structure of the financial system and problems posed by managing financial institutions in today’s environment are given real time practical application in case studies which assess the performance of financial institutions from a creditor’s, investor’s and regulator’s viewpoint. Case studies of bank failure and success are interposed with principles of asset liability management, strategic planning and responses to a changing environment in prudential supervision.

25752 Financial Institution Lending
6cp
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This is a specialised subject in the management of the loan funds assets of financial institutions. It provides students with knowledge of the theory of financial intermediation, information economics and its application in achieving the maximum shareholders return while managing the level of risk associated with the loan products. The subject’s topics include: the formulation of loan policy, the managing and selection of loans, loan pricing, portfolio loan risk management, individual loan risk management, problems loans and specialist loan risk areas such as project and infrastructure finance, corporate loans, consumer lending and small and medium enterprise lending and loan structuring and documentation and collateral. The subject includes a number of case studies in major lending disciplines such as project financing, small and medium enterprise lending, consumer lending, corporate lending and problem loans.

25762 Synthetic Financial Products
6cp
Requisite(s): 25741 Capital Markets
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an introduction to the management of portfolios using options in financial markets. Stock, index, debt and foreign currency options are discussed, as well as forward and futures contracts and options on these instruments. The role of such instruments as risk-transferring devices is also discussed.

25763 Corporate Treasury Management
6cp
Requisite(s): 25762 Synthetic Financial Products AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject teaches students the management of financial price risk in a corporate environment. On completion, students are able to understand and identify financial price risk, measure exposures, set objectives, measure performance and adopt appropriate tactics and strategies. This is via use of forwards, futures, swaps and options (separately or, in combination).

25764 Venture Capital Finance
6cp
Requisite(s): 25741 Capital Markets AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the nature of the venture capital market and investment processes, and the growing number of financial institutions involved as venture capital suppliers. It analyses the various types of new ventures appropriate for venture capital finance, including start-up, expansion and management buy-out.

25765 Corporate Finance
6cp
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject teaches students to advanced corporate financial management by initially considering an economy with no risks and no market imperfections and then relaxing these assumptions to consider a more realistic economic environment. Topics covered include capital budgeting, cost of capital, capital structure and valuation, dividend policy and mergers and acquisition. Particular attention is paid to different tax environments and agency relationships within the firm.

25780 Readings in Finance
6cp
Postgraduate
Students wishing to enrol in this subject should seek the approval of the head of the School of Finance and Economics.

Access conditions are available in the individual subject descriptions in the online handbook.
25787 Research Techniques in Finance and Economics
6cp
Postgraduate
This subject exposes students to a selection of research techniques of potential relevance in preparing a thesis in the area of finance and economics.

25788 Research Seminar in Finance and Economics
6cp
Postgraduate
This subject provides a forum for students to present an update on their research efforts and review the work of others.

25796 Personal Wealth Management
6cp
Requisite[s]: 25721 Investment Management
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
In this subject students study the investment and financial issues arising from the management of personal wealth. They examine the structure of the Australian financial planning industry and analyse the most important components of wealth management: setting financial plans, budgeting, taxation planning, investment planning and strategies (including managed funds), risk management and insurance, home ownership and property investment, superannuation and social security, leveraged investments, retirement planning and estate planning. The subject is designed to provide students with the ability to develop and manage the financial plans of clients in a way that meets their specific goals and long-term objectives.

25797 Real Estate Investment Trusts
3cp
Requisite[s]: 25721 Investment Management
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the structure, management and role of real estate investment trusts in the capital markets. Real estate investment trust business models, and legal, commercial and management structures, are analysed, together with an examination of the links between corporate strategy and property portfolio management within a listed environment.

25798 Ethics and Professional Standards in Finance
3cp
Requisite[s]: 25721 Investment Management
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
For subject description, contact UTS: Business.

25807 Mergers and Acquisitions
3cp
Requisite[s]: 25741 Capital Markets AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject looks at all aspects of the mergers and acquisitions process by which one organisation is subsumed into another. Topics covered include valuation, leveraged buyouts, asset sales and restructuring, and defeasance. Legal and tax aspects of mergers and acquisitions is also examined.

25809 Technical Analysis
3cp
Requisite[s]: 25721 Investment Management
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Technical analysis is a major force in financial markets. This subject familiarises students with all aspects of technical analysis. Topics include types of charts, Elliot wave theory and cross confirmation.

25812 Fundraising in International Markets
3cp
Requisite[s]: 25741 Capital Markets AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines practical aspects of raising funds in offshore markets. The evolution and structure of international financial markets is also examined. Eurocurrency, debt and equity markets are covered in detail. Topics include international bond issues, equity link bonds and euro bonds.

25818 Real Estate Finance and Investment
3cp
Requisite[s]: 25721 Investment Management
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines real estate/property as an asset class. Various property sectors are considered as well as mainstream techniques of finance such as discounted cash flow, modern portfolio theory and efficient market hypothesis, which are applied to the selection, evaluation, and management of real estate.

25824 Project Financing
3cp
Requisite[s]: 25741 Capital Markets AND 25765 Corporate Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides students with an understanding of the particular risks involved in project financing. It develops abilities to overcome the risks involved in project finance through analytical techniques and looks at the role of project financing in the modern economy with reference to recent projects in Australia and South-East Asia. Topics covered include identification and management of project risk; project financing; evaluation of projects; structuring; and documentation.

25832 Financial Markets Instruments
6cp
Postgraduate
This subject introduces students to the main instruments and markets that comprise the financial system. It discusses the factors that influence the evolution of financial markets, valuation of various securities such as equities and foreign exchange, bond price, forward rate and yield curve calculations, forward rate agreements (FRAs) and interest rate swaps, and interest rate hedging.

25833 Derivatives
6cp
Postgraduate
This subject introduces students to modelling asset price dynamics in discrete time and continuous time. Students also examine arbitrage pricing of derivatives in discrete and continuous times, interpretations of the arbitrage pricing condition leading to the partial differential equation, martingale and integral evaluation viewpoint, and derivative pricing in both deterministic and stochastic interest rate environments.
25834 Portfolio Analysis
6cp
Requisite(s): 25854 Statistical Methods for Quantitative Finance AND 25832 Financial Markets Instruments
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to the theory and practice of modern portfolio theory, surveys relevant aspects of capital markets, foundations of investment decision-making, portfolio selection via the mean-variance approach, and theory and empirical tests of equilibrium pricing models. It assists students to understand the theory and principles underlying modern portfolio theory, and develops skills to apply theories to investment decisions.

25835 Computational Finance
6cp
Requisite(s): 25832 Financial Markets Instruments AND 25834 Portfolio Analysis
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops students' skills to solve computational problems arising in Quantitative Finance. It investigates solutions for portfolio management, derivatives pricing, equity and yield curve analysis. It also examines basic concepts of procedural and object-oriented programming, and develops the application skills of these concepts to financial problems in Visual Basic / Excel and in C++.

25836 Financial Decision Making Under Uncertainty
6cp
Requisite(s): 25832 Financial Markets Instruments AND 25834 Portfolio Analysis AND 35364 Statistics for Quantitative Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to utility theory, arbitrage principles, portfolio formation and efficient markets at an advanced level. Areas such as the development of mean-variance analysis, the capital asset pricing model and arbitrage pricing theory in single-period equilibrium models and multi-period portfolio analysis in discrete time and in continuous time are examined.

25837 Financial Econometrics
6cp
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject exposes students to the main econometric techniques used to estimate models in financial economics. It emphasises that financial economics is a highly empirical discipline. The primary method of inference for the financial economist is examined, and the model analysed is statistical inference-financial econometrics. Students apply a range of econometric techniques to financial theories.

25838 Advanced Instruments
6cp
Requisite(s): 25835 Computational Finance AND 25836 Financial Decision Making Under Uncertainty
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides students with the opportunity to apply the various techniques studied earlier in the course to the valuation and hedging of more advanced derivative instruments. It examines taxonomy of the various exotic derivatives in the log-normal world and then focuses in detail on pricing and hedging issues, particularly binaries, barriers and strongly path-dependant options such as Asians and look-backs. Interest rate derivative products are analysed, and practical implementations within the Hull-White, Heath-Jarrow-Morton and Brace-Musiela representations are undertaken.

25839 Mathematics of Finance
6cp
Requisite(s): 35365 Stochastic Calculus in Finance
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to the theory of mathematical finance with applications in derivative pricing, portfolio optimisation and risk management. Techniques of no-arbitrage pricing in finance and financial mathematics are explored. Theoretical problems involving hedging derivatives and change of probability measures and portfolio optimisation are formulated and solved.

25840 Integrated Risk Management
6cp
Requisite(s): 25838 Advanced Instruments
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to the theory and practice of integrated risk measurement and management with applications in value at risk, market and credit risk analysis for large diversified portfolios, extreme value analysis and coherent risk measurement. Techniques for large nonlinear diversified portfolios are explored. Theoretical problems related to value at risk, expected shortfall and risk adjusted capital allocation for large nonlinear portfolios are formulated and solved.

25841 Decision Making Tools
8cp
Postgraduate
This subject unifies students' abilities to approach business-related problems by integrating methods and applications. Emphasis is placed on realistic business examples and the processes managers use to analyse business problems. The aim is to provide students with the skills to analyse business problems with tools they have access to and will use in their careers.

25844 Managerial Corporate Finance
8cp
Requisite(s): 25845 Managerial Economics AND 25846 Managerial Finance
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces and exposes students to corporate financial management by initially considering an economy with no risks and no market imperfections, and then relaxing these assumptions to consider a more realistic economic environment. Topics covered include capital budgeting, cost of capital, capital structure and valuation, dividend policy, mergers and acquisitions and private equity. Particular attention is paid to different tax environments and agency relationships within the firm.

25846 Managerial Finance
8cp
Requisite(s): 25841 Decision Making Tools AND 22814 Accounting Information for Managers
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides students with an understanding of the tools and techniques used in financial decision-making and up-to-date knowledge in financial management. It provides an understanding of the financial forces that influence corporate strategy, offering the opportunity for participants to acquire a range of skills and expertise expected of corporate managers. The outcomes are achieved using learning strategies that foster the application of leading-edge practices to meet the business challenges arising from international forces and technical and knowledge innovation. The subject material draws on
an understanding of managerial accounting and economics, provides a basis for subsequent integrative subjects and examines the key areas of financial decision-making, such as risk and diversification, capital budgeting, and cost of capital.

**25849 Financial Risk Management**  
6cp  
Requisite[s]: 25855 Fundamentals of Derivative Security Pricing AND 25856 Probability Theory and Stochastic Processes. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides a comprehensive and rigorous exposition of the theory and practice of financial risk measurement and management. The subject focuses on tools and techniques for identifying, measuring, computing, and managing market risk. It covers risk measures including value-at-risk, expected shortfall, and earnings-at-risk. The concept of coherent risk measures are also explored. Parametric and non-parametric techniques, including historical and Monte Carlo simulation, are covered in depth. The subject consists of a large practical component involving implementing value-at-risk measures for realistic portfolios, combined with stress testing methods.

**25850 Credit Risk**  
6cp  
Requisite[s]: 25855 Fundamentals of Derivative Security Pricing AND 25856 Probability Theory and Stochastic Processes. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The Global Financial Crisis has highlighted the need for sophisticated credit risk management as well as the danger of blindly applying complex models without a thorough understanding of their underlying assumptions and limitations. This subject addresses these issues, providing insight into what can and can’t be done using quantitative models for credit risk – and how to do what can be done. It introduces students to state-of-the-art mathematical models for credit risk, resulting in an understanding of their relative merits, the issues involved in their implementation and their use in the pricing and risk management of credit risk and credit derivatives.

**25851 Mathematical Finance**  
6cp  
Requisite[s]: 25855 Fundamentals of Derivative Security Pricing AND 25856 Probability Theory and Stochastic Processes. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject introduces stochastic calculus and the theory of mathematical finance at an advanced level with applications in derivative pricing, portfolio optimisation and risk management. Techniques of pricing and hedging in finance and insurance are explored. Theoretical problems involving the hedging of derivatives and the change of probability measures and the optimisation of portfolios are formulated and solved.

**25852 Numerical Analysis for Quantitative Finance**  
6cp  
Requisite[s]: 25851 Mathematical Finance. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject presents various numerical methods used in quantitative finance. It provides a rigorous understanding of advanced numerical, statistical and filtering methods. Emphasis is on simulation methods for solving stochastic differential equations, their systematic application and their links to finite difference and other numerical methods.

**25853 Computational Methods and Model Implementation**  
6cp  
Requisite[s]: 25857 Interest Rate Modelling AND 25849 Financial Risk Management AND 25850 Credit Risk. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject develops skills to solve computational problems arising in quantitative finance. It investigates solutions for risk management, derivatives pricing, equity and yield curve analysis, focusing on model implementation and calibration to market data. Models are implemented on a Microsoft Excel platform (including Visual Basic) and in C++.

**25854 Statistical Methods for Quantitative Finance**  
6cp  
This subject reviews the required tools from mathematics, probability and statistics required to describe some stylised facts about asset returns.

**25855 Fundamentals of Derivative Security Pricing**  
6cp  
Requisite[s]: 25834 Portfolio Analysis AND 25837 Financial Econometrics. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject introduces the foundations of modern portfolio theory and the Heath-Jarrow-Morton framework and the LIBOR market model. Stochastic interest rate environment. The focus is on spot rate models, arbitrage pricing in continuous time, different interpretations of the arbitrage pricing condition, the partial differential equation, martingale and integral evaluation viewpoints. Option pricing under stochastic volatility and jump-diffusion dynamics is also considered.

**25856 Probability Theory and Stochastic Processes**  
6cp  
Requisite[s]: 25834 Portfolio Analysis AND 25837 Financial Econometrics. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The subject introduces the theory of stochastic processes and stochastic calculus and demonstrates their applicability to solve problems in finance.

**25857 Interest Rate Modelling**  
6cp  
Requisite[s]: 25855 Fundamentals of Derivative Security Pricing AND 25856 Probability Theory and Stochastic Processes. These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject builds on the subject Fundamentals of Derivative Security Pricing to present the various financial and mathematical concepts, techniques and intuition necessary to price derivative securities in a stochastic interest rate environment. The focus is on spot rate models, the Heath-Jarrow-Morton framework and the LIBOR market model.

**25921 Theory of Financial Decision Making**  
6cp  
Undergraduate

This subject introduces the foundations of modern portfolio theory and how it is applied. Topics covered include theory of choice, mean-variance criterion, capital market equilibrium, capital asset pricing model and arbitrage pricing theorem, and equilibrium evaluation of derivative securities.
**25922 Financial Econometrics**  
6cp  
Undergraduate  
This subject extends knowledge of financial econometrics and model building to enable comprehension of advanced research literature and confident use of econometric techniques in research. Topics include: maximum likelihood estimation and inference in linear and nonlinear models; modern time series methods of dealing with integrated variables; modelling volatility with the ARCH class of models; and models for cross-sectional data.

**25923 Derivative Security Pricing**  
6cp  
Undergraduate  
This subject covers the following topics:  
- pricing methodologies and arbitrage  
- key ideas illustrated in a binomial setting  
- an introduction to the Ito calculus  
- risk neutrality and martingale measures  
- the Black/Scholes model and the associated quantitative methods  
- the basis of Monte Carlo simulation  
- options with early exercise features  
- the term structure of interest rates, and  
- pricing of interest rate derivatives.

**25924 Advanced Corporate Finance**  
6cp  
Undergraduate  
Through study of the research literature, this subject provides an understanding of the motivation, construction and empirical testing of theories in corporate finance. It covers a selection of classic papers in corporate finance, some current research work, and a significant quantity of Australian empirical work. Research studied is concerned with the major issues involved in a company's investment and financing decisions and the interaction of these activities with the formation of prices in the markets for the company's securities.

**25927 PhD Thesis: Finance**  
0cp  
Postgraduate  
Students must undertake original research, supervised by a senior member of the school’s academic staff. Students must prepare a proposal, present it and gain approval before proceeding. The thesis should advance knowledge in the area of finance, and should be of a standard publishable in an international refereed journal.

**25928 Thesis Proposal in Finance (Honours)**  
4cp  
Honours  
This subject enables students to conceptualise, develop and defend a research proposal on an original problem of a theoretical or applied nature in finance.

**25929 Thesis in Finance (Honours)**  
18cp  
Honours  
This subject allows students to research and write a thesis on the proposal developed in Thesis Proposal in Finance (Honours). Students receive regular guidance and feedback from their thesis supervisors. The Honours thesis requires the student to produce a 20,000-word (maximum) thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner.

Each thesis is examined by at least two internal examiners from the Faculty of Business. External examiners may from time to time be appointed at the discretion of the Head of the Discipline Group to support the internal examination process.

**25984 Thesis in Finance and Economics (Honours)**  
12cp  
Undergraduate  
The Honours thesis requires the student to produce a 20,000-word (maximum) thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner.

**25990 Master of Business Thesis (Finance)**  
0cp  
Students are required to complete a thesis which is considered to involve an amount of study equivalent to four semesters for full-time study, and six semesters for part-time study. The thesis is expected to present original research of a theoretical or applied nature in finance or economics. It is not expected to advance knowledge, as is required in the case of a PhD thesis, but it should give evidence of the student’s ability to engage in a substantial investigation, identify and analyse research problems and present the results in a coherent and scholarly manner.

**26100 Integrating Business Perspectives**  
6cp  
This subject provides students with an overview of the business landscape with its various economic, legal and regulatory dimensions, in the private, public and non-profit sectors. It provides an introduction to the relationship between the various business disciplines and their contribution to the value of the business and society. Students also consider ethical and sustainability issues as they relate to the role of business in society. In addition, the subject incorporates the development of graduate skills for business professionals, in particular those relating to (business) written communication, oral presentations, group work, and critical, integrative and creative thinking.

**First-year experience videos**  
View commentary from students and academics about this first-year subject at:  
- Student video: www.youtube.com/watch?v=r16Q2bGMv8  
- Academic video: www.youtube.com/watch?v=4tyy3CVgtfY

**26134 Business Statistics**  
6cp  
Requisite(s): 26100c Integrating Business Perspectives  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.  
Undergraduate  
This subject is designed to develop students’ abilities to assess and critically interpret statistics and business information and apply them in changing business environments. The subject places strong emphasis on developing a clear theoretical understanding of various analytical tools as well as an appreciation of the application statistics to business decisions. These skills and competencies provide a foundation for professional practice for further study in the many different majors of the degree.

**26703 Introductory Health Economics**  
6cp  
Postgraduate  
This subject provides a broad understanding of the economics of health and health care and the skills to apply analytical economics techniques to problems of resource allocation and policy development in the health system. The subject covers key economic issues for the health system and uses economics techniques to understand how the health system operates and to analyse health system reform.
26800 International Business Consulting
8cp
Postgraduate
The subject provides an in-depth practical experience enabling students to develop a better understanding of international business strategies and best practices. During the international study tour, participants are exposed to a series of expert presentations and company visits supporting the course objectives, while solving a business problem for a Sydney-based firm. Academic and industry supervisors are assigned to coach, mentor and assist the participants in the engagement. The scope and nature of the consulting assignment is agreed upon with the client through a proposal process. The findings are delivered to the client in terms of a presentation and a formal report.

27002 Community Engagement
6cp
Undergraduate
This subject enables students to participate in an international community project. Students actively engage in a series of unique and demanding educational experiences during the preparation, participation and evaluation phases of their projects. Hands-on community work allows students to gain invaluable personal and career experience, as well as build powerful life and job skills that can be applied towards future community building initiatives.

Community engagement activities are designed to inspire and inform students about the various issues surrounding development and philanthropy. Community projects encourage students to cultivate an understanding of the value of community development work through results-oriented community-based activities. This learning atmosphere contributes to a positive self-image through team-based, success-oriented activities while, at the same time, extends individuals' self-awareness by creating opportunities for the identification of personal strengths and clarification of individual needs and goals.

27100 Current Issues in Sport Business
6cp
Undergraduate
This subject allows students to apply the knowledge they have gained previously to an understanding of contemporary, critical, global issues in sport business. Students examine the local and global relevance of the critical issues, the ethical ramifications and the ways in which they, as sport business professionals, might respond. They also reflect on how such issues might affect the development of sport.

The subject assists students to relate critical sport business issues to a wider understanding of social life and community.

27103 Olympic Games and Mega Events
6cp
Undergraduate
The Olympic Games is a significant phenomenon in contemporary sport, tourism and culture with a growing research literature. This subject covers the cultural, sociological, economic and media impacts on the games, the philosophy of 'Olympism' and impacts of the Sydney 2000 event.

27105 Nutrition for Health and Physical Activity
6cp
Requisite(s): 27175 Energetics of Human Movement
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines the role of nutrition in maintaining a healthy lifestyle and optimising exercise and sports performance. It focuses on dietary guidelines for health, exercise prescription and sports performance, and on the relationships between physical activity and eating disorders.

27111 Mechanics of Human Motion
6cp
Undergraduate
This subject investigates the mechanical principles required to produce movement. It analyses both internal and external forces with respect to the human body and its environment, with a view to applying various mechanical principles to optimise human performance.

27115 Arts and Entertainment Industries
6cp
Undergraduate
This subject examines the concepts and structure of non-profit and for-profit arts and entertainment industries. It covers theories of cultural distinction and cultural capital and their relevance to the contemporary analysis of leisure and culture. It analyses the organisation of the arts and the entertainment industry in Australia with particular reference to market segmentation, globalisation, sustainability and creating value and competitive advantage. The subject familiarises students with current issues shaping the future of arts and entertainment in Australia.

27116 e-Marketing and Management of Services
6cp
Requisite(s): 27324 Strategic Management in Leisure, Sport and Tourism Organisations
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines how information and computer-mediated communication technology is used in the information-intensive leisure and tourism industries. It examines and analyses the use of this technology in the management and marketing of such organisations to establish why it is used, what efficiencies it brings and the implications for the links in the service distribution chain. It gives students an understanding of how e-commerce in the tourism and leisure industries is changing the way in which such services are promoted and distributed to the consumer.

27126 Event and Leisure Industries
6cp
Undergraduate
This subject provides students with an introduction to leisure and events behaviour, industries and experiences. It builds a framework for analysing the development of 'industrial' responses to this behaviour and provides a grounding on which subsequent contextual knowledge is built. It provides students with the opportunity to learn a range of information retrieval and reporting techniques central to the development of scholarship.

27137 Aquatic Services and Events
6cp
Undergraduate
This subject examines the growth and extent of water-based recreation in Australian society; the administrative structures which have evolved to cater for water-based recreation; and the skills and resources necessary to program selected water-based activities.

27141 Sport Tourism
6cp
Undergraduate
The subject explores the concepts and practices that underpin the relationship between sport and tourism. This includes sport as an active endeavour for tourist, as well as sport as a commodity for witness and consumption by audiences. Students develop an understanding of management, policy and delivery issues in two of the world's largest and fastest growing industries, and how they combine today. Interplays between sport tourism and the economy, sociocultural dynamics, the environment, urban development, and public policy are critically investigated. The subject also includes discussion of cultural variations in sport and tourism, contemporary developments, and likely trends in the future of sport tourism.

27149 Performance Studies 1: Gymnastics and Dance
6cp
Undergraduate
This subject provides students with the knowledge and skills necessary to understand the relationships between human motor development and performance in physical activity. Competence in a range of dance (including jazz, contemporary and warm-up routines) and gymnastics (including warm-ups, cool-downs, floor routines, apparatus and complete lessons) activities is required.
27152 Measurement and Development of Physical Capacity
6cp
Undergraduate
This subject examines the interrelationships between physical activity and the physiological and anatomical development of the individual. It provides students with proficiency in the skills required to assess fundamental capacities related to human movement and emphasises the development of physical capacity (endurance, strength and flexibility) and basic training methodology.

27154 Readings for Thesis
6cp
Undergraduate
This subject provides honours students with the opportunity to explore in greater depth the major themes and issues pertaining to their area of research. It enables students to recognise the contribution of the literature relevant to their research problem. It also allows students to use the literature to develop the theoretical and conceptual framework of their honours thesis.

27155 Research for Human Movement
6cp
Undergraduate
This subject introduces a variety of research design and statistics procedures to reflect the human movement and sport and exercise management fields. Research methods include both quantitative and qualitative procedures. Computer software packages are used to enter, analyse and report data. Students become familiar with statistical procedures relating specifically to the sport and exercise industry.

27160 Sport and Exercise Psychology
6cp
Undergraduate
This subject examines sport performance and exercise participation in relation to cognitive and social psychological constructs. It emphasises the utilisation of sport psychology for performance enhancement in sport and examines the psychological responses involved in exercise, with an emphasis on how these responses influence future exercise behaviour.

27161 Sport Marketing
6cp
Undergraduate
This subject explores marketing concepts as they relate to the funding, promotion and the commercial development of sport. The subject explores sport marketing strategies, sport research, sport advertising, sport publicity, sport sponsorship and promotion across various levels of sporting organisations.

27171 Applied Kinesiology
6cp
Requisite(s): 27111 Mechanics of Human Motion AND 27180 Functional Kinesiology
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject involves a detailed analysis of human movement and provides the opportunity to advance understanding of musculoskeletal anatomy and biomechanics. This is achieved through a detailed analysis of the anatomical and mechanical principles that surround selected movement patterns.

27172 Applied Sport Psychology
6cp
Requisite(s): 27160 Sport and Exercise Psychology
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines the field of applied sport psychology. It focuses primarily on performance enhancement through the understanding and implementation of psychological principles in sport situations.

27173 Human Performance in Sport and Exercise
6cp
Requisite(s): 27175 Energetics of Human Movement
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Students examine human physiological and biochemical responses and adaptations to human performance with emphasis on the efficiency of human movement, training adaptations, muscle metabolism and exercise training methodology. The subject focuses on developing a strong theoretical understanding, as well as developing proficiency in the skills required for fundamental assessment in exercise physiology.

27174 Analysis of Human Motion
6cp
Requisite(s): 27171 Applied Kinesiology
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject expands upon a variety of mechanical concepts integral to the study of human motion. Quantitative problems are developed further and a major research project involving videography is conducted. Linear and angular kinetics are applied to sporting techniques and other human movements. The use of technical equipment for data collection and analysis is a major component of the subject.

27175 Energetics of Human Movement
6cp
Undergraduate
This subject examines the interactions between the bioenergetic, metabolic, neurological and hormonal aspects of human movement, muscular control and cardiorespiratory function and performance. With a focus on energy system development and the physiological response to exercise, this subject supports the development of competencies in the assessment of physiology in a human movement context.

27178 Exercise Rehabilitation
6cp
Requisite(s): 27180 Functional Kinesiology
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines the role of physical exercise as a therapeutic adjunct in the amelioration of certain chronic medical conditions caused by disease, sport or workplace injury. It focuses on developing a strong understanding of the physiological, biomechanical and psychological limitations of these chronic medical conditions as well as developing proficiency in the skills required for individualised prescription of exercise programs for special populations.

27180 Functional Kinesiology
6cp
Undergraduate
This subject incorporates a detailed examination of the structure and function of bones, joints, muscles and nerves with emphasis on the identification of anatomical structures and their relevance to human movement. It forms the basis for subsequent study of the physiological and kinesiological aspects of human movement.

27184 Dimensions of Tourism
6cp, 3hpw [2hr lecture, 1hr tutorial]; students are expected to attend a minimum of 80 per cent of class sessions; This is a subject for all first year students of tourism.
This is a core foundation subject for any degree that incorporates tourism.
Undergraduate
This subject introduces students to the phenomenon of tourism and the field of tourism studies. It traces two centuries of tourism development and examines the relationships tourism has with sociocultural, economic and natural environments. It also introduces the human element in tourism through a review of key theories of tourism.

Access conditions are available in the individual subject descriptions in the online handbook.
motivation and tourist behavior. The different types of tourism are introduced and key national and international tourism organisations are studied for their functions in managing tourism activity.

### 27185 The Tourist Experience

**6cp**  
**Undergraduate**  
This subject introduces conceptual and methodological approaches to the study of the experiences of the tourist. It seeks to develop an understanding of the tourist experience as distinct from the ‘at home’ leisure experience by exploring the unique sociocultural and physical environment of the tourist. A focus is diversity of experience and social inclusion. The subject discusses approaches to managing tourist experiences. The content of this subject is largely based on contributions from tourism studies, cultural geography, sociology, environmental psychology and social psychology.

### 27192 Event Impacts and Legacies

**6cp**  
**Undergraduate**  
This subject provides an overview of the events sector, along with the functions and impacts that events have from the perspective of various groups and organisations within a society. Additionally, it examines various approaches that can be used to assess event impacts. The issue of planning for event legacies is also examined. Case studies feature strongly in this subject.

### 27193 Event Marketing

**6cp**  
**Undergraduate**  
This subject examines the strategic marketing planning process as it applies to events of various types. In moving through this process, this subject deals with: the event marketing environment; setting marketing objectives; understanding event consumers; event marketing strategies; positioning and branding events; managing the quality of event experiences; distributing ‘access’ to events through the ticketing process; pricing; marketing communications; and approaches to monitoring, controlling and evaluating event marketing efforts. Case studies feature strongly in this subject.

### 27194 Event Sponsorship and Revenue

**6cp**  
**Undergraduate**  
This subject deals with non-ticket/registration fee-based revenue streams available to public and corporate events. In doing so, it seeks to first identify these income streams before going on to discuss their strategic development. Given its significance to many events, substantial time is given in this subject to examining how events develop and manage sponsorship as a major revenue source. Other revenue streams that are dealt with include merchandising, licensing, concession rights, media rights and grants. Discussion of the evaluation and effectiveness of these revenue streams is also a key aspect of this subject.

### 27196 Venue Management

**6cp**  
**Undergraduate**  
This subject examines the principles of managing venue and facility operations. Specifically, it addresses how facilities and venues are planned, managed, operated, evaluated and maintained. The subject also covers issues ranging from traffic circulation to security and safety issues. Guest speakers from various venues and facilities are featured and current trends, case studies and future directions are also covered.

### 27222 Exercise Prescription

**6cp**  
**Requisites:** 27152 Measurement and Development of Physical Capacity  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.  
**Undergraduate**  
This subject examines principles related to the prescription of exercise across a wide variety of populations to achieve specific gains in health, strength, power, endurance and speed. It considers the areas of testing physiological function, program development, age and gender in exercise programming.

### 27226 Analysis of Motor Control

**6cp**  
**Undergraduate**  
This subject examines the structure of the motor control system, the processes underlying movement control, methods of assessing muscle and nerve function, posture and balance control, and the development of coordinated movement patterns.

### 27227 Critical Issues in Health and Wellbeing

**6cp**  
**Undergraduate**  
This subject explores and examines a range of contemporary health issues that exist in Australian society. It focuses on a social view of public health to deepen knowledge and understanding of the fundamental health principles and explore a range of health models. The social determinants of health are examined to highlight the limitations of medical approaches and introduce the social model of health. Knowledge and understanding of lifestyle, sexual and mental health issues are critically analysed by examining the range of physical, social and cultural determinants that impact on health and wellbeing. The subject enables students to identify and discuss preferred solutions to critical issues in health and wellbeing, and provides an overview of the links between behavioural risk factors and illness and mortality as well as between health behaviours and disease prevention and wellness. Students learn behaviour change principles and strategies for effective implementation of healthy lifestyle goals and habits.

### 27228 Lifespan Development

**6cp**  
**Undergraduate**  
This subject investigates human growth and development across the lifespan. It examines the effects of age, gender, ethnicity, culture and development stages on physical capacity. It also analyses the effects of physical activity and health behaviours on growth and development.

### 27249 Performance Studies 2: Dance and Athletics

**6cp**  
**Undergraduate**  
This subject provides students with the knowledge and skills necessary to understand the development of human physical capacities, strength, power, flexibility and cardiorespiratory fitness. Competence in a range of exercise, sport and dance activities is required.

### 27252 The Sport Industry

**6cp**  
**Undergraduate**  
As the Australian sport industry becomes more professional and complex, the number of agencies involved in the delivery of sport products and services multiplies. This subject examines individual agencies to determine their respective input into the sport environment and explores the relationships and interconnectedness between such groups. It assesses and analyses the impact of business, the various arms of government and volunteers on both mass and elite sport to provide a coordinated perspective of the sport industry.

### 27253 Sport in the Global Marketplace

**6cp**  
**Undergraduate**  
This subject examines similarities and differences in the production and consumption of sport in the international environment. It provides students with a critical understanding and the essential skills necessary for leaders of sport and leisure industries to prosper in a rapidly emerging global marketplace.
This subject examines the scope and role of sport in contemporary society with particular reference to Australia. It seeks to understand and account for policy development and implementation across the commercial, public and voluntary sectors and addresses a number of professional issues surrounding contemporary trends in Australian sport.

27308 Exercise Management for Special Populations

This subject examines the aetiology of lifestyle and clinically relevant diseases with a focus on physical activity and exercise. The course presents information relating to the physical and mental health benefits of physical activity and exercise for health under various physiological and metabolic conditions. Students develop an understanding of the factors that determine, influence and modify the physical activity habits of individuals and whole populations who may present with, or be at risk of, various disease states. This subject reinforces principles and practice of technical skills required of the exercise scientist. Students develop competencies in assessment of cardiorespiratory health, muscular and orthopaedic performance and clinical exercises stress testing central to professional practice in the health and fitness setting.

27323 Government and Policy for Leisure, Sport and Tourism

This subject examines the rationale for government involvement in leisure, tourism, sport, the environment and the arts. It also examines political ideology and power processes in the community and methods of policy analysis, including performance indicators, cost benefit, economic impact analysis and performance appraisal. Lastly, the subject reviews policy initiatives.

27324 Strategic Management in Leisure, Sport and Tourism Organisations

This subject brings together knowledge gained by students from both generic business and disciplinary subjects via applications to the strategic management of leisure, sport and tourism organisations. It exposes students to strategic management planning tools and processes used in leisure and tourism industry organisations that result in desired outcomes for these organisations. Students are provided with the knowledge and skills to be comfortable with and apply strategic financial and human resource management techniques.

27326 Diversity Management

This subject examines the philosophical and theoretical issues related to ‘specific populations’. It traces the historical evolution of treatment of specific populations and discusses contemporary practice. Selected specific populations (e.g. people with physical disabilities, gay and lesbian communities) are covered in detail with the focus of study on leisure, lifestyle and opportunities. Students have direct contact with specific populations through field visits.

27327 Tourism and Sustainability

This subject examines the relationship between tourism and sustainability, in particular the reasons why there are questions about the long-term sustainability of tourism and ways in which this issue can be addressed. The various meanings and applications of sustainability to tourism are explored. Tourism's major impacts on and relationships with economic, ecological and sociocultural environments are identified and discussed. Both government and industry-initiated policies and practices, designed to enhance tourism's sustainability in the context of attractions, tourism enterprises and destinations, are critically examined.

27331 Skill Acquisition

This subject examines the processes underlying skilled motor performance, how skilled performances are learned and how to apply the principles of skilled performance and learning in instructional settings in human movement such as teaching, coaching and rehabilitation.

27341 Health Promotion

Health promotion provides the process for increasing awareness of factors that impact on health as well as health enhancement strategies. To reach a state of complete physical, mental and social wellbeing, an individual or group must be able to identify and realise aspirations, satisfy needs, and change or cope with the environment. Health is hence viewed as a valuable resource for life and livelihood. Health promotion, therefore, is not just the responsibility of the health sector, but reaches beyond healthy lifestyles to optimise wellbeing for all.

27342 Sociocultural Concepts for Leisure, Sport and Tourism

This subject considers theories and concepts of relevance to the society in which leisure, events, sport, human movement and tourism professionals practise. The subject explores key theoretical concepts such as power, globalisation, commodification, flow, play, sociability, authenticity and diversity and familiarises students with a cross section of literature that informs different aspects of leisure, event, sport, human movement and tourism theory.

27344 Research Foundations for Leisure Sport and Tourism

This subject introduces students to the research process and each of its elements. It aims to develop understanding of the approaches to the collection, interpretation and statistical analysis of data within leisure, sport and tourism. Students become proficient in a range of quantitative, qualitative and experimental research methods used in the area. The subject develops skills in entering, analysing and presenting data using standard software packages. The emphasis of this subject is on developing an understanding of how research is conceptualised, actioned and reported.

27345 Creating Event Experiences

This subject deals with the process of creating and developing concepts for events. It examines the various aspects and stages of the event creation process and the elements and processes available to the event manager in devising and developing quality event concepts. The subject content includes a mix of theory and application, as students design, implement and evaluate an event of their own creation.

27346 Tour Operator and Wholesaling Management

This subject seeks to provide students with knowledge and skills associated with management level positions within the tour wholesaler, inbound tour operator and local tour operator sub-sectors of the tourism industry. In doing so it overviews the nature and characteristics of these tourism industry sub-sectors, examines marketplace trends and issues impacting upon them and discusses their marketing, management and operations. A key aspect of this subject is the development of skills and knowledge in students such that they can analyse case specific data and recommend appropriate management/marketing responses.
This subject seeks to develop a sound understanding of strategic and operations management in a hotel context. In performing this role, it provides an overview of the Australian and international hotel industry, describes the nature of the hotel product and the markets that this product serves, discusses hotel business and marketing strategy options and examines operational practices associated with the successful conduct of a hotel business. A key aspect of this subject is the development of skills and knowledge in students so they can analyse case-specific data and recommend appropriate management responses.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This is a final year subject which allows students to apply the knowledge they have gained in the course to an understanding of contemporary, critical, global issues in tourism. Students examine the local and international relevance of the issues, the ethical implications and the ways in which they, as tourism professionals, might respond. Students also reflect and project on how such issues might affect the development of tourism. The subject assists students to relate critical tourism issues to a wider understanding of society.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject provides students with the knowledge and skills necessary to understand biomechanical and physiological analysis procedures in sport. Competence in various sport and aquatics activities is developed.

These requisites may not apply to students in certain courses. See access conditions.

Undergraduate

In this subject, students undertake a professional internship with an organisation in the sports, tourism leisure or events industry. This assists in developing employment skills, knowledge and contacts identified as essential to career goals. Through their internship, students are exposed to the managerial functions and activities of their chosen industry. A written reflection on each period of internship is required. Students must undertake up to 240 hours of work with an industry organisation and complete an agreed program of work based on predetermined learning objectives.

All students are required to:

- complete a minimum of 210 hours in an approved workplace.
- where the standard working day equals seven hours and excludes lunch breaks
- complete one placement only
- keep an accurate account of their hours worked and include this as a formal part of the assessment for the subject.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject seeks to develop a sound understanding of strategic and operations management in a hotel context. In performing this role, it provides an overview of the Australian and international hotel industry, describes the nature of the hotel product and the markets that this product serves, discusses hotel business and marketing strategy options and examines operational practices associated with the successful conduct of a hotel business. A key aspect of this subject is the development of skills and knowledge in students so they can analyse case-specific data and recommend appropriate management responses.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject requires students to apply the knowledge and skills they have developed throughout their course to a particular industry-based project. Students carry through the activities outlined in the project proposal they prepared in Industry Project 1, with the aim of solving a selected management problem on behalf of an industry client. Students work closely with the industry client and under the supervision of an academic supervisor. This project is the culmination of the practical, professional stream of the Bachelor of Management in Tourism and Bachelor of Management in Events and Leisure.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject utilises a practical framework to investigate the theoretical and practical components required for the performance of four individual/team sports.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject examines the application of environmental planning principles and practices to the level and quality of provision of facilities and settings for tourism experiences. The need for and role of environmental planning are defined in the context of developing tourist destination sustainability. Those aspects of environmental planning legislation and practice that most directly impinge on tourism are examined in detail, in the context of achieving certain general aims and objectives. Environmental planning practices examined include plan formulation and preparation, processes and mechanisms of development control, including zoning and development standards, and environmental impact assessment. Planning for sustainable tourism is considered in relation to a range of destination types, including cities, protected areas and coastal resorts.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

Popular Culture and the Experience Industries is an elective subject that provides students with an advanced understanding of the links between popular culture and the experience industries. Through the lens of popular culture theory students examine and gain insights into the impacts popular culture has on the lives of people in western capitalist societies, and the ethical implications of the cultural messages conveyed through the mass media.

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject provides students with experiential learning contexts that allow for the identification of the value of disciplinary specific knowledge and generic graduate attributes for community engagement. Through service learning, community engagement projects with partner organisations are provided to enable students to reciprocally engage with community organisations to contribute to community development and reflect on their contribution, learning and social responsibility.

In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.
This subject examines the management (recognition, treatment and prevention) of injuries related to sport, the workplace and physical activity. Emphasis is placed on immediate recognition and on-site treatment of injuries and the role of the human movement specialist in rehabilitation and prevention of athletic injuries.

27620 Special Learning Project

This subject provides students with the opportunity to develop specific project-based vocational or theoretical knowledge in an area of personal interest. It is open to students who have attained a Credit average or above and who have demonstrated a capacity to engage in self-directed work.

27628 Law for Leisure, Sport and Tourism

This subject examines the law as it relates to leisure, sport, tourism and events. It provides students with both the knowledge of fundamental principles of relevant laws as well as the ability to identify and analyse problems from a legal perspective.

27642 Tourism Marketing

This subject seeks to develop in students an understanding of how marketing concepts and practices apply in the context of both tourism destinations and tourism services. It describes the environmental and industrial context in which the marketing of tourism services and tourist destinations takes place and examines the characteristics of tourism services and tourist destinations that impact upon the application of marketing theory. It also provides an overview of the broad characteristics of inbound, outbound and domestic tourism markets and the various approaches that can be employed to segment these markets. Considerable time is spent discussing strategic considerations in tourism marketing, (such as demand management, branding and positioning, electronic channels for promotion and distribution) and in examining key considerations in the promotion, pricing and distribution of tourism services/destinations. The analysis of case-specific data relating to the marketing of tourism services/destinations is a key aspect of this subject.

In view of the impact of the January 2011 floods and February's Cyclone Yasi on the marketing of Queensland as a destination, some time is devoted to the issue of post-crisis marketing for destinations and tourism businesses.

27646 Tourist Attractions Management

This subject examines the distinctive aspects of tourist attraction management and marketing. It examines a range of selected case studies, which in the past have included Gledswood Homestead, Manly Aquarium and the Australian Museum. It reviews the relationship between tourist attractions and inbound tour operators, coach tour operators, and local, regional and state tourist organisations and involves a number of field visits. The subject is of interest to students seeking to develop knowledge and skills relevant to the pursuit of careers in the tourist attraction area, or in tourism industry sectors which interact closely with tourist attractions.

27647 Airlines and Transportation Management

This subject introduces students to management within the context of the transportation sector. It covers the airline industry in depth and also explores corresponding issues and concepts within other forms of transport. It deals with the environmental (especially regulatory) context in which transport providers operate, general principles of transport economics, strategic management, marketing, service delivery and collaborative linkages between the sector and other sectors of the tourism industry.

Typical availability

Autumn semester

27648 The Tourism Business

This subject focuses on the industrial element of a tourism system. Students complete a comprehensive, systematic analysis and description of essential elements involved in highly industrialised tourism in terms of their functional, structural, operational and interrelational attributes. This subject also introduces students to ways in which industry firms respond to trends, tourist motivations and external influences and at the same time manage their operations to minimise negative impacts on societies and natural environments.

27649 Ecotourism Planning and Management

This subject addresses the range of management and planning issues appropriate to the operation of ecotourism in Australian society. It provides students with an understanding of key aspects of ecotourism projects and operations and explores principles and practices for commercial and public agencies that are available and include the underlying principles and ethics of ecotourism. It examines the skills needed to establish a successful ecotourism project or operation and considers issues such as ethical marketing and community relationships. It also explores the context of ecotourism in a variety of natural and organisational settings.

276901 Honours Thesis 1

The honours thesis requires students to produce a 20,000-word thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate students' competency to conceptualise, conduct and present research in a scholarly and independent manner.

276902 Honours Thesis 2

The honours thesis requires students to produce a 20,000-word thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate students' competency to conceptualise, conduct and present research in a scholarly and independent manner.

27700 Sustainable Tourism Management

This subject provides students with an awareness of significant contemporary issues arising from tourism's impacts on its economic, natural/ecological, social and cultural environments. It explores appropriate policy, planning and management responses to these issues, encapsulated in the pursuit of sustainable tourism. It critically examines a range of broad tourism industry responses, individual enterprise initiatives and forms of government intervention designed to achieve more sustainable tourism. The need to be mindful of tourism's impacts and the pursuit of sustainability are significant parts of the context in which contemporary tourism operates.

Access conditions are available in the individual subject descriptions in the online handbook.
27703 Event Management
6cp
Undergraduate
This subject provides students with the skills and knowledge necessary for management positions within the area of special event management. Particular emphasis is placed on conferences, festivals, community special events, sporting events, and promotional events. The subject describes the broad characteristics of special events, and discusses the roles played by events in the development of tourist destination regions. It examines the broad functions performed by events from the perspective of communities, organisers, marketing departments of firms, participants and attendees and reviews the planning, marketing, organising and evaluation tasks associated with events.

27706 Managing Tourism Services
6cp
Postgraduate
This subject examines management as a social process and applies management theories and empirical studies to various travel and tourism industry settings and management structures. It examines the functions and levels of management in travel and tourism industry organisations and develops students' abilities to formulate management strategies and perform management functions appropriate to sectors of the travel and tourism industry. Ethical responsibilities of travel and tourism industry managers in relation to external environments and publics are also considered.

27707 Applied Research Methods
6cp
Postgraduate
This subject provides an understanding of basic social science research methods and processes commonly used in research within the specialised industry contexts. It provides a framework for considering the relationships between theory and practice and seeks to imbue the use of research-based knowledge within the professional fields of practice to which it relates. Both qualitative and quantitative approaches to research are covered.

27715 Sport Business
6cp
Postgraduate
This subject aims to provide students with critical understanding of the theories, knowledge and skills necessary for managers in commercialised sport to operate effectively in increasingly complex sociocultural environments and competitive business markets.

Typical availability
Autumn semester, City campus

27717 Venue and Facility Management
6cp
Postgraduate
This subject examines the principles of managing venue and facility operations. Specifically, it addresses how facilities and venues are planned, managed, operated, evaluated and maintained. The subject also covers issues ranging from traffic circulation to security and safety issues. Guest speakers from various venues and facilities are featured and current trends, case studies and future directions are also covered.

Typical availability
Spring semester, City campus

27721 Sport Globalisation
6cp
Postgraduate
This subject provides a critical understanding of global theories and practices in elite-level sports and within a variety of economic, political and socio-cultural contexts. It examines the impact of globalisation on the meaning, production, consumption and performance of sport. The subject therefore seeks to develop knowledge of and sensitivity to values, customs and traditions of sport management practices in a range of international contexts. It examines how global-local forces produce pressure for the adoption or adaptation of dominant modes of sport organisation. An underlying assumption is that awareness of global-local dynamics of economy, politics, culture and sport performance are necessary for advanced leadership of sport in dynamic international settings.

27726 Event Concepts and Contexts
6cp
Postgraduate
This subject provides an overview of the events sector, along with the functions and impacts that events have from the perspective of various groups and organisations within society. Additionally, it examines the various external environments that impact upon, or are impacted by, events. Key tools that can be employed in assessing event impacts (such as cost-benefit analysis) are also reviewed. Issues associated with public policy and events, and the linkage between events and regional/urban development and sustainable development are examined, often through the vehicle of case studies.

27727 Event Creation Workshop
6cp
Postgraduate
This subject examines the process of creating, developing and implementing an event concept. It deals with the nature of the creative process, responding to client briefs, identifying event objectives, site selection and design, the formation and leadership of creative teams, and the selection, sourcing and management of the creative elements of an event. Case studies by leading industry professionals dealing with the development of creative event concepts are a feature of this subject.

27729 Legal Issues for the Experience and Not-for-Profit Industries
6cp
Postgraduate
This subject considers the laws relevant to sport, tourism, events and arts management. The subject explores legal structures and essential laws, including contracts, torts (negligence), consumer protection, intellectual property, industrial relations and those laws which are specific to sport, tourism, events and the arts. Students are equipped to recognise legal obligations in the management context.

Typical availability
Autumn semester, Kuring-gai campus

27732 Sport Organisations
6cp
Postgraduate
This subject provides a framework for analysing the structure, purposes and roles of sport organisations, their key responsibilities to stakeholders, and the impact of policy factors and sociocultural influences on their operation.

27733 The Experience Economy
6cp
Postgraduate
This subject explores the nature and emergence of the experience economy as the broad context within which the arts, sport, tourism and events sectors operate. The distinctive nature of experiences is explored, particularly with regard to the role of the consumer in the co-creation of value within experiences. The particular characteristics of both the demand and supply side of the experience economy are examined, with some emphasis on the role of collective and collaborative behaviour within and between sectors. An understanding of the dynamics of the experience economy leads ultimately to a consideration of the future challenges within the various sectors.

27734 Marketing for the Experience Industries
6cp
Postgraduate
This subject introduces students to the role of marketing in a firm and the principles and concepts that underpin effective marketing within the industry sectors of arts, sport, tourism and events. The marketing of services underpins marketing activity within each of these sectors. Apart from the generic marketing concepts of segmentation, product positioning, branding, pricing, promotion and distribution, this subject also focuses on sponsorship and revenue management, customer loyalty strategies and destination marketing as applicable to each of these industry sectors.
27735 Tourism and the Industry
6cp
Postgraduate
This subject provides students with an essential underpinning and broad knowledge and understanding of the specific and general contexts within which management in, and management of, tourism are practiced. It systematically analyses all the essential elements of tourism, with particular emphasis on the structure and functions of the tourism industry. It also provides an overview of the nature of the interrelationships between tourism and the significant environments within which it interacts. The subject uses information and case studies from Australian and international contexts.

27737 Event Risk Management
6cp
Postgraduate
This subject seeks to develop in students an understanding of the underlying principles and ethics of ecotourism. It examines the operation of ecotourism projects and operations and explores principles and issues appropriate to the operation of ecotourism in Australian society. It provides students with an understanding of key aspects of ecotourism projects and operations and explores principles and practices for commercial and public agencies that work but still include the underlying principles and ethics of ecotourism. It examines the management skills that are needed to establish a successful ecotourism project or operation and considers issues such as ethical marketing and community relationships. It also explores the context for management, planning and operation in this area such as conservation, protected area management and organisational relationships in the tourism industry.

27764 Analysis of the Olympic Games
6cp
Postgraduate
This subject provides students with knowledge and understanding of the Olympic Games phenomenon in general, and its impact on host cities and countries. It covers the history of the ancient Olympic Games; the origins and development of the modern Olympic Games; political dimensions, including examination of the Olympic Games under fascist, communist, and capitalist regimes; boycotts, terrorism and international politics; cultural, sociological and media aspects of the Games; the idea of the ‘Olympism’ – its origins, construction and cultural significance; social impacts of the Games in host communities; financing of the Olympic Games and their economic impact; the Games as a tourism phenomenon; political, social and economic analysis of hallmark events (festivals and major sporting events) in general; and issues facing the Olympic Games, such as drugs, discrimination and commercialisation.

27765 Event Management
6cp
Postgraduate
This subject seeks to develop in students an understanding of the skills and knowledge associated with the creation, implementation, monitoring and evaluation of risk management strategies in an event setting. Additionally, it seeks to provide students with the capacity to critically review existing approaches used by events for the management of risk.

27767 Tourist Behaviour
6cp
Postgraduate
This subject examines the conceptual and methodological approaches to the study of tourist behaviour. It is based on contributions primarily from sociology, cultural geography, social psychology and environmental psychology. It relates the tourist to their sociocultural context. Application of the knowledge to the management of tourism is central to the subject.

27769 Professional Internship for Graduates
6cp
Postgraduate
This subject is designed for graduate students in arts, events, sport and tourism management and for students in the MBA program with a major in arts. For those students who have limited work experience in the arts, events, sport and tourism industries, the subject provides the opportunity, through a placement, to gain such experience and to relate it to the theoretical and applied learning. For those students who are already working in a relevant industry, this subject provides the opportunity for students to diversify their experience and their theoretical and applied learning. This subject is based on a practical internship of no less than 160 hours, an evaluation of the work experience gained and a report on the internship by way of an individual learning contract developed in association with a supervisor.

27773 Guiding and Interpretation Management
6cp
Postgraduate
Students undertake a program that develops their skills as interpretative guides and their understanding of the management of this area of a company/agency. The program focuses on the roles of leadership and small group communication to develop an understanding of the skills that are required of a guide. Interpretation and the forms it takes in settings such as historic sites, museums and protected areas are explored to enable students to meet the needs and expectations of potential clients when operating managing guiding.
Environmental, outdoor and experiential education methods and techniques are presented to develop skills and understanding of matters such as ecological concepts, risk management and legal liability. The subject uses an experiential learning approach based in a variety of settings but particularly focuses on the outdoors.

**27778 Innovative Services Management**
6cp  
Postgraduate  
This subject explores the nature of innovation and entrepreneurship in service industries. It examines creative management theories and applications of entrepreneurial and innovative thinking, activity and advocacy for change within specific industry organisations. Students work on case studies in understanding the challenges facing specific organisations and their ability to move through a life cycle from new entrant, maturity and decline to reinvention. It includes examining skills in identifying, harnessing and further developing resources from public and private sources as well as developing appropriate products and services for trading. Students develop a business case approach for investment in an innovative or entrepreneurial product or service within a specific service organisation.

**27800 Applied Leadership and Strategy**
8cp  
Postgraduate  
This subject focuses on issues of leadership, teamwork and strategic thinking in a global business environment. The subject is experientially grounded and uses both computer-based simulations and creative problem-solving activities that involve leadership and teamwork as catalysts for learning. Students assess business risk through an analysis of industry and competitive conditions in a global context, engage in enhanced problem-solving and creative-thinking exercises, think strategically about a company’s competitive situation and future prospects, develop and revise strategies in the light of changing conditions, and reflect on their leadership and team-based actions to gain a deeper understanding of personal strengths and development opportunities.

**27935 Applied Studies**
6cp  
Postgraduate  
This elective subject allows self-directed students to develop their own program of study based on a defined research or industry project. As such, it allows students to develop specific expertise in a chosen vocational or academic area within the events, arts, sport or tourism field. The subject provides students with the freedom to define their own study agenda and pursue this with the support of a relevant academic staff supervisor.

**Typical availability**  
Autumn semester, Kuring-gai campus

**27961 Advanced Research Methods for Leisure, Sport and Tourism**
6cp  
Requisites: 127707 Applied Research Methods OR 127344 Research Foundations for Leisure Sport and Tourism OR 27155 Research for Human Movement  
This subject covers two areas: conceptual and theoretical approaches to research and qualitative and quantitative research methods. The first of these addresses the nature of research and its relationship to policy and the development of knowledge and conceptualisation and design of research projects. The quantitative area involves the application of statistical methods and exploration of the more advanced capabilities of the SPSS package.

**Typical availability**  
Autumn semester, Kuring-gai campus

**27966 Masters Project**
6cp  
Requisites: 27941 Advanced Research Methods for Leisure, Sport and Tourism  
These prerequisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

**28723 Research Dissertation 1 (Business)**
24cp  
For subject description, contact UTS: Business.

**28724 Research Dissertation 2 (Business)**
24cp  
Requisites: 28723 Research Dissertation 1 (Business)  
There are also course requisites for this subject. See access conditions.

**31000 e-Business Trading**
6cp  
Recommended studies: ability to program in Java, and to work comfortably with Java documentation  
Undergraduate  
This subject covers the following topics: the structure of electronic markets and their role in electronic business; an analysis of various negotiation mechanisms suitable for deployment in electronic business; take-it-or-leave-it mechanisms, auctions, bargaining (haggling) and contracts; an examination of the mechanisms being used in existing commercial electronic markets; and the design, construction and deployment of negotiation software for both electronic trading agents and electronic markets.

**31005 Data Mining Algorithms**
6cp  
Requisites: 31040 Data Mining and Knowledge Discovery OR 31250 Introduction to Data Analytics  
Undergraduate  
Data mining is an exciting new field combining databases, artificial intelligence, machine learning and visualisation among others. It is applied in many fields of business, industry and science to discover new information and knowledge. At the heart of data mining are the knowledge discovery algorithms. This subject builds on previous data mining subjects to give an understanding of how both basic and more powerful algorithms work.

**31008 Directed Study 1**
6cp  
Undergraduate  
This subject is a small group subject that covers a specialist topic at an advanced level. The topic of an individual subject is chosen by the subject coordinator. There are no set lectures; instead, the students and the coordinator meet once a week to discuss the topic.

**31009 Directed Study 2**
6cp  
Undergraduate  
This subject is a small group subject that covers a specialist topic at an advanced level. The topic of an individual subject is chosen by the subject coordinator. There are no set lectures; instead, the students and the coordinator meet once a week to discuss the topic.

**31010 Directed Study 3**
6cp  
Undergraduate  
This subject is a small group subject that covers a specialist topic at an advanced level. The topic of an individual subject is chosen by the subject coordinator. There are no set lectures; instead, the students and the coordinator meet once a week to discuss the topic.
31013 Directed Study 4
6cp
Undergraduate
This subject is a small group subject that covers a specialist topic at an advanced level. The topic of an individual subject is chosen by the subject coordinator. There are no set lectures; instead, the students and the coordinator meet once a week to discuss the topic.

31016 Career Management for IT Professionals
6cp
Undergraduate
The aim of this subject is to enable students to understand the culture of the IT workplace, to identify work opportunities, to effectively market themselves to appropriate employers and to develop professional skills and behaviours sought by employers that enable students to transition effectively into the IT workplace.

The subject focuses on using information from the workplace to understand typical entry-level IT graduate jobs available, the skills (both technical and generic) required to be competitive job seekers, an understanding of how to develop effective targeted applications and how to perform well in an interview. It prepares IT students to work effectively in groups, to manage meetings and to write well-structured professional reports. The subject also supports the development of a skills-based e-portfolio for ongoing career management.

31028 Project
2cp; availability: undergraduate degree students
Undergraduate
This subject is intended to give students experience in working independently on a small research or development project. The project may be drawn from any area of information technology. Each project is supervised by a member of academic staff.

31029 Project
4cp; availability: undergraduate degree students
Undergraduate
This subject is intended to give students experience in working independently on a small research or development project. The project may be drawn from any area of information technology. Each project is supervised by a member of academic staff.

31030 Project
6cp; availability: undergraduate degree students
Undergraduate
This subject is intended to give students experience in working independently on a small research or development project. The project may be drawn from any area of information technology. Each project is supervised by a member of academic staff.

31050 Programming with Patterns
6cp
Requisite(s): 31267 Programming Fundamentals OR 48023 Programming Fundamentals AND 31271 Database Fundamentals OR 31061 Database Principles OR 31474 Database Fundamentals
Undergraduate
Patterns are fundamental to many aspects of intelligence. They are produced in pattern recognition systems for image processing and data mining, and are consumed by pattern-matchers to find useful information. Pattern calculus is a new foundation for computation in which patterns are central. It is realised in the programming language bondi (being developed at UTS) that supports a variety of programming styles, including query programming and object orientation. This subject introduces the theory and practice of programming with patterns to students already familiar with a number of programming styles.

31061 Database Principles
6cp; availability: BBus/BComp and non-Faculty of IT students
Recommended studies: it is assumed that students are familiar with basic system analysis concepts and have basic software skills
Undergraduate
This subject introduces the students to basic database design and implementation concepts. Database design techniques, including relational design and E-R analysis, are presented. Database queries using SQL is covered in lectures and supported by practical exercises.

31075 Object-relational Databases
6cp
Requisite(s): 31271 Database Fundamentals
Undergraduate
This subject introduces students to object-oriented and object-relational databases and their application for the management of multimedia and other types of complex data. Following a brief review of relational database and object-oriented principles, the SQL-2003 object-relational model and language features are introduced. This is followed by a description of the multimedia standard SQL/MM. The theoretical discussion of these topics is supported with practical hands-on exercises using the Oracle 11g database management system.

Typical availability
Spring semester, City campus

31080 Digital Multimedia
6cp
Requisite(s): 31267 Programming Fundamentals OR 48023 Programming Fundamentals
Recommended studies: Basic programming skills
Undergraduate
Digital multimedia is a combination of media (text, pictures, audio and video) that is represented digitally and hence can be treated as data by computer programs. The full potential of this fact is yet to be explored, but one facet of it - its interactivity - distinguishes digital multimedia from its predecessors.

Interactive multimedia systems are becoming increasingly widespread and have the potential to provide more complex and engaging experiences for users in many domains, including games, the arts and business. This subject introduces the fundamental principles of interactive multimedia and associated tools.

Typical availability
Spring semester, City campus

31091 Mobile Computing Project
6cp; availability: undergraduate degree students
Requisite(s): [31089 Mobile IP and Wireless LANs OR 31088 Mobile Networks] AND 31090 Mobile Programming
Undergraduate
This subject provides students with an opportunity to participate in a group project, developing a simple wireless application. A member of academic staff supervises each group project.

31096 Managing Client/Vendor Relations
6cp
Requisite(s): 31476 Systems Development Project OR 31485 Systems Development OR 31269 Business Requirements Modelling OR 31475 Requirements Engineering OR 31424 Systems Modelling OR 31281 Systems Development Project
Undergraduate
This subject deals with management, social, legal and financial issues that arise when several parties are involved in the development of an information system. Situations considered are outsourcing, insourcing, development partnerships, support relationships and individual contracting. Students are provided with sufficient resources to plan for and evaluate their position as a client or vendor, and to assess where they need professional advice.

31097 IT Operations Management
6cp
Undergraduate
This subject allows students to develop the knowledge and skills required for effective management of hardware, software and human resources within an information systems organisation. Major topics are resource acquisition, developing software, workplace environment, recruitment and training policies, hardware and software security, operations management and EDP accounting.

Access conditions are available in the individual subject descriptions in the online handbook.
31100 Enterprise Development with .NET
6cp
Requisite(s): [31927 Application Development with .NET AND (31061c Database Principles OR 31271c Database Fundamentals OR 31474c Database Fundamentals)]
Recommended studies: a good understanding of the C# programming language, client-server network concepts; basic HTML skills; basic database design and SQL
Undergraduate
The development of enterprise applications requires knowledge and skills spanning a range of technical areas. This subject focuses on the key components of enterprise applications and their implementation in .NET. Topics include enterprise application design, security and data access. The language used is C#.

Typical availability
Autumn semester, City campus

31102 Game Design Studio 1
6cp
Requisite(s): [31264 Introduction to Computer Game Design OR 31002 Introduction to Computer Game Design] AND 78 credit points of completed study in C10229 Bachelor of Science in Games Development
Undergraduate
This subject teaches students how to design, develop and implement a game based on client specifications. Students examine the game mechanics for multiple indie and experimental games in developing their own game mechanics. A player-centric approach to design is used where new ideas are tested continuously with end users. Students work in teams taking on roles similar to those found in game development companies. They work independently under supervision and with guidance, but are ultimately responsible for the final project delivery and presentation.

31103 Game Design Studio 2
6cp
Requisite(s): 31102 Game Design Studio 1 AND 78 credit points of completed study in C10229 Bachelor of Science in Games Development
Undergraduate
This subject builds on the existing project produced in 31102 Game Design Studio 1. Students work in teams to polish the games and bring them up to commercial quality product standards. Alternatively, students can extend the games from the previous subject and implement them on a different platform. The intellectual property of the games developed belongs to the team and it is expected that some teams market their games after completion of the subject.

31104 Programming for Special Effects
6cp
Requisite(s): 31264 Introduction to Computer Graphics OR 31140 Introduction to Computer Graphics
Undergraduate
This subject examines the architecture and capabilities of modern graphics processing units (GPUs) with a focus on writing shaders to create special effects, such as fog, shadows, fire, water, clouds, lightning, motion blur and reflections that are seen in games and movies. Shader programming in general as well as different shader languages are discussed. Students learn to develop, test and tune shaders independent of the final application that might use them.

31136 Preparation for and Review of IT Experience
6cp; available only to students of the Diploma of IT Professional Practice
Undergraduate
This subject involves formal planning of and regular reporting on work experience undertaken in 31137 IT Experience 1. There is particular emphasis on the skills students hope to gain.

31137 IT Experience 1
0cp; available only to students of the Diploma of IT Professional Practice
Undergraduate
To pass this subject and 31139 IT Experience 2 students must complete a total of nine months’ full-time employment in suitable IT-related work.

31138 Review of IT Experience
6cp; available only to students of the Diploma in IT Professional Practice
Requisite(s): 31136 Preparation for and Review of IT Experience AND 31137 IT Experience 1
Undergraduate
This subject involves continued regular reporting and includes structured reflection on your work experience undertaken for 3139 IT Experience 2. Assessment includes a report and other deliverables submitted towards the end of your work experience.

31139 IT Experience 2
0cp; available only to students of the Diploma of IT Professional Practice
Requisite(s): 31136 Preparation for and Review of IT Experience AND 31137 IT Experience 1
Undergraduate
This subject is a continuation of 3137 IT Experience 1.

31241 3D Computer Animation
6cp
Requisite(s): 31264 Introduction to Computer Graphics OR 31140 Introduction to Computer Graphics
Recommended studies: basic knowledge of drawing and 2D digital image processing (basic Photoshop) is useful
Undergraduate
This subject covers the major areas of 3D computer animation. It provides students with the opportunity to learn a major commercial 3D modelling, animation, and rendering package. The subject also covers the principles and practice of pre-production planning, production management and post-production of an animation project. The subject is project-based, and each student develops an animation of their choice.

31242 Advanced Internet Programming
6cp
Requisite(s): [31284 Web Services Development OR 31470 Distributed Computing Architecture] AND [31244 Applications Programming OR 31469 Object-oriented Design OR 48024 Applications Programming]
Undergraduate
This subject provides students with knowledge of and skills in advanced Internet technologies particularly related to server-side Internet programming and business-to-business systems. It covers the topics of application servers, n-tier architectures, Internet technology standards, and description and lookup. The subject also approaches these technologies from a business perspective. In doing so it covers the theory and architectures for business-to-business systems and enterprise application integration.

31243 Analytics Capstone Project B
6cp
Undergraduate
Data mining and knowledge discovery is the kernel of contemporary computer analytics and intelligence. The process consists of several iterative steps, including data pre-processing and transformation, the actual data mining and pattern discovery steps, and putting discovered information and knowledge into action. This subject is focused on the practical implementation of this process to large data sets from different areas of human endeavour. It provides students with exposure to real-world analytics scenarios, and with expertise and experience in the application of the data mining techniques and in professional communication of analytics results.
31245 Business Process and IT Strategy
6cp
Requisite(s): 31266 Introduction to Information Systems OR 31472 Introduction to Collaborative Systems OR 31484 Information Systems Foundations OR 31060 Information Systems Principles OR 31414 Information Systems
Undergraduate
A major concern of businesses is the search for competitive advantage, by forming partnerships such as outsourcing, mutual service provision and virtual organisations. For IT managers this raises a number of complex issues not easily understood and managed. Two ways of achieving competitive advantage and improved collaboration are through business process transformation (BPT) and strategic information planning (SIP) which lead to better alignment between information systems and business processes. In this subject, theories and methods of business process transformation and strategic information planning are presented, together with some of the problems that many organisations have encountered with these methods. Students learn and discuss business and strategy processes that lead to learning organisations that can achieve sustainable competitive advantage.

31246 Network Design
6cp
Requisite(s): 31277 Routing and Internetworks OR 31471 Networking 2
Recommended studies: a good understanding of networking technologies and protocols; some experience with router configuration and protocols
Undergraduate
Network design is still as much an art as a science. This subject formalises in a logical manner the step-by-step analysis and design process. Many designs also rely on extending an existing network for emerging requirements. Principles and issues associated with this approach to the network design problem are considered. Assignments take students through a set of cases that deal with real-world network analysis and design problems.

31247 Collaborative Business Processes
6cp
Requisite(s): 31266 Introduction to Information Systems OR 31472 Introduction to Collaborative Systems OR 31484 Information Systems Foundations OR 31060 Information Systems Principles OR 31414 Information Systems
Undergraduate
The subject describes ways to organise teams to create innovative business solutions by sharing knowledge between people and businesses. It describes how teams are organised to collaborate and share knowledge to quickly develop innovative solutions that address current and emergent issues in society and business. It introduces methods that can be used by agile teams to support the creativity, critical thinking and design that characterise innovation and ways to integrate these into everyday activities. It includes ways in which teams function in modern organisations, how businesses can change to support culturally diverse teams, and how systems can enable effective team operation, including decision making and conflict resolution. The subject outlines the collaborative support tools and social networking that allow teams to collaborate across distance and ways to adapt social networking for knowledge sharing and innovation.

31248 Computer Graphics Project
6cp
Undergraduate
This subject gives students experience in working independently on a small computer graphics project. It also gives students the responsibility for the development of the project from initial analysis to user documentation. The project may be in any area of computer graphics, and students gain a detailed knowledge of and experience in the project area.

31249 Computer Graphics Rendering Techniques
6cp
Requisite(s): 31264 Introduction to Computer Graphics OR 31140 Introduction to Computer Graphics
Recommended studies: C++ or Java, elementary two- and three-dimensional graphics algorithms
Undergraduate
This subject covers the three major rendering techniques used for image synthesis in computer graphics: rasterisation algorithms, ray tracing and radiosity, with an emphasis on ray tracing. Topics covered include reflection models, ray-object intersections, recursive ray tracing, transparency and refraction, textures, anti-aliasing, shadows, acceleration techniques for ray tracing, triangle meshes, global illumination, and radiosity for diffuse environments.

31250 Introduction to Data Analytics
6cp
Requisite(s): 31271 Database Fundamentals OR 31061 Database Principles OR 31474 Database Fundamentals OR 31487 Database Management Systems
Recommended studies: knowledge of database technologies
Undergraduate
Data mining is the art and science of turning large quantities of usually incomprehensive data into meaningful and commercially valuable information. It is the basis of modern computer analytics and intelligence. It includes a number of IT areas, such as statistical methods for identifying patterns in data and making inferences; database technologies for managing the data sets to be mined; a range of intelligent technologies that derive automatically patterns from data; and visualisation and other multimedia techniques that support human pattern discovery capabilities. This subject offers the foundations of data mining and knowledge discovery methods and their application to practical problems. It brings together the state-of-the-art research and practical techniques in data mining, providing students with the necessary knowledge and capacity to initiate and conduct data mining research and development projects, and professionally communicate with analytics experts.

31251 Data Structures and Algorithms
6cp
Requisite(s): 31244 Applications Programming OR 31469 Object-oriented Design OR 31488 Programming Foundations OR 31508 Programming Fundamentals OR 48024 Applications Programming
Recommended studies: basic programming concepts; variables, loops and decisions; basic file manipulation in UNIX: directories and files, editing files, re-direction; basic understanding of the standard C++ programming model: the fetch-execute cycle, single memory with byte addressing, input and output with disks, keyboard and screen; understanding of character sets and internal data representations, including ASCII, signed integers, floating point
Undergraduate
This subject teaches students how to design, develop and evaluate data structures and algorithms to meet predefined quality characteristics of functionality (suitability) and usability (understandability, learnability, operability, compliance). Software solutions are implemented using C++. Concepts, theories and technologies underlying the methods and techniques are introduced and explained as required.

31252 Network Security
6cp
Requisite(s): 31277 Routing and Internetworks OR 31471 Networking 2
Recommended studies: a sound knowledge of computer networking
Undergraduate
Network security is a major issue for enterprises, with breaches of security possibly being punished by legal sanctions, financial loss, or loss of customer confidence. This subject consolidates the student’s understanding of security by considering security principles from both a people management and a technical perspective. Topics covered include security appliances such as firewalls, proxies, and Intrusion Detection Systems; security services such as confidentiality, integrity and authentication; and technologies such as IPSec, SSL, etc. Students doing this subject are well placed to contribute to the security solution of a modern organisation.
31253 Database Programming
6cp
Requisite(s): 31271 Database Fundamentals OR 31061 Database Principles OR 31474 Database Fundamentals OR 31487 Database Management Systems
Undergraduate
This subject teaches students how to design, develop and evaluate database programming and administration solutions to meet pre-defined quality characteristics of functionality (suitability, security), usability (operability), efficiency (time behaviour, resource utilisation), and maintainability (changeability, testability). Database programming and administration solutions are implemented using Oracle 10G, SQL*Plus and PL/SQL. Concepts, theories and technologies underlying the methods and techniques are introduced and explained as required. Students apply all that they have learnt to develop a small application to solve a database problem.

31254 e-Commerce
6cp
Recommended studies: basic internet skills and understanding of the business environment
Undergraduate
This subject develops students' awareness of e-commerce issues and their understanding of the stakeholders, their capabilities and their limitations in the strategic convergence of technology and business. Topics include business models for e-commerce, security, legal and ethical issues. Students develop skills in identifying the advantages and disadvantages of the various electronic payment options, and complete computer-based activities on internet commerce.

31255 Finance and IT
6cp
Requisite(s): 31266 Introduction to Information Systems OR 31472 Introduction to Collaborative Systems OR 31414 Information Systems OR 31060 Information Systems Principles
Undergraduate
This subject provides skills in financial management that are essential to any IT professional working in business today. Students gain knowledge of financial principles and an understanding of reporting requirements which are necessary for the evaluation and design of auditable financial systems. In addition, students develop key competencies in the financial aspects of IT management and project management including budgeting, job costing, feasibility and risk analysis.

31256 Image Processing and Pattern Recognition
6cp
Requisite(s): 31251 Data Structures and Algorithms OR 31473 Data Structures and Procedural Programming
Undergraduate
Images and videos contain enormous amounts of information that can be extracted automatically by means of image processing and pattern recognition techniques. The extracted information is at the basis of many innovative applications such as video surveillance, diagnosis from medical images, automatic indexing and retrieval of multimedia data, human-computer interaction. This subject gives the students the ability to understand the principles of image processing and pattern recognition and develop software for the automatic analysis and interpretation of images and videos.

31257 Information System Development Methodologies
6cp
Requisite(s): 31269 Business Requirements Modelling OR 31475 Requirements Engineering OR 31488 Programming Foundations OR 31424 Systems Modelling
Undergraduate
Successfully designing and developing information systems is complex and difficult. A number of techniques and approaches have been developed but there are no ‘silver bullet’ solutions to the problems that plague IT development projects. This subject introduces students to a number of different methodologies and provides them with the skills they need to identify their strengths and weaknesses in key areas. These issues are of critical importance to those wishing to successfully manage software projects.

31258 Innovations for Global Relationship Management
6cp
Requisite(s): 31266 Introduction to Information Systems OR 31472 Introduction to Collaborative Systems OR 31060 Information Systems Principles OR 31414 Information Systems OR 31485 Systems Development OR 31269 Business Requirements Modelling OR 31475 Requirements Engineering
Undergraduate
The computing industry in Australia has passed through a number of stages and is entering a phase where its pivotal role is using computers to maintain relationships, knowledge management and innovation. This has lead to competitive advantage becoming the most important goal. This subject places local IT industries firmly within the local and global economic context. The topics covered include: an overview of the global IT industry, including its direction and structure; the value of IT in business; implications of e-commerce, customer relationship and knowledge management, user modelling, outsourcing, and off-shoring; and legal issues in the new economy for formalising those relationships. The subject also looks at ways of organising business information in organisations, with a focus on informal flows found in organisations. Relationships differ in the kind of work undertaken, process followed in team formation and management. This subject covers relationship building by having students using tools such as portals for maintaining customer loyalty and outsourcing collaborations.

31259 Intelligent Agents
6cp
Recommended studies: ability to program in a suitable language such as Java or C#
Undergraduate
This subject introduces students to the concepts of agent computing, and applies those concepts in the context of intelligent internet-based systems. A selection of artificial intelligence techniques are reviewed and related to agents. Students gain sufficient knowledge to be able to take more specialised subjects in internet-based computing and artificial intelligence. By the end of this subject the students should be able to design and implement a simple intelligent agent.

Typical availability
Spring semester, City campus

31260 Interface Design
6cp
Requisite(s): 31244 Applications Programming OR 31469 Object-oriented Design OR 48024 Applications Programming
Undergraduate
This subject teaches students how to design, implement and evaluate user interfaces to meet predefined quality characteristics of functionality (suitability), usability (understandability, learnability, operability, compliance) and portability (adaptability). Concepts, theories and technologies underlying the methods and techniques are introduced and explained as required. Students apply all that they have learnt to develop and implement a user interface for a business system.

31261 Internetworking Project
6cp
Undergraduate
This subject provides students with an opportunity to participate in a group project, designing and developing a substantial network or network application. Each project is supervised by a member of the academic staff.
31262 Introduction to Computer Game Design
6cp
Requisite(s): 31264 Introduction to Computer Graphics OR 31080 Digital Multimedia
Recommended studies: familiarity with computer graphics and experience with designing interactive systems
Undergraduate
Designing and building computer games is a challenging task. This subject focuses on the software technologies (such as graphics, networks, software design and artificial intelligence) used in computer games and covers basic interactive design, interface design, game design documentation and play mechanics through hands-on projects.

31263 Introduction to Computer Game Programming
6cp
Requisite(s): 31264 Introduction to Computer Graphics OR 31140 Introduction to Computer Graphics
Recommended studies: trace and debug complex programs using Visual Studio
Undergraduate
This subject covers game-specific programming techniques, algorithms, game testing, game logic, multimedia programming, networking and server design and optimisation of real-time 3D rendering. Students gain sufficient knowledge to extend existing computer game engines or build a basic game engine from scratch.

31264 Introduction to Computer Graphics
6cp
Requisite(s): 31244 Applications Programming OR 31080 Digital Multimedia OR 48024 Applications Programming
These requisites may not apply to students in certain courses. See access conditions.
Recommended studies: students must be competent programmers in a high level language such as C, C++, Java, or Visual Basic; some experience with an integrated development environment such as Visual C++ would be an advantage, but is not essential; knowledge of linear data structures is required
Undergraduate
This subject provides a thorough introduction to the computer representation, manipulation and display of pictorial information. Topics covered include passive and interactive graphics; hardware devices and programming; mathematical tools for 2D and 3D graphics; 2D and 3D graphics algorithms; human-computer interaction; rendering algorithms; and application areas of computer graphics.

31265 Communication for IT Professionals
6cp
Undergraduate
This subject focuses on developing the academic written and spoken language skills required for undergraduate study in information technology. Students take a critical and analytical approach to understanding and producing written and spoken texts appropriate for IT professionals in the Australian context. Accordingly, students undertake a range of listening, speaking, reading and writing activities and assigned work to maximise the development of their spoken communication and academic literacy.

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/15/lmUDRKL8jwc
- Academic video: www.youtube.com/user/utschannel#p/u/25/mlOdWzUxLIM

31266 Introduction to Information Systems
6cp
Undergraduate
This subject introduces students to the type of information systems which form the foundation of conducting business in the 21st century. Key concepts include the nature of information systems, how information systems support an organisation’s activities, the importance of stakeholders and users in information systems, systems development methodologies, collaborative work processes, teamwork, and usability evaluation. During the semester students undertake a detailed investigation of an information system and how it supports the people and tasks of an organisation, and design the user interface for a simple information system.

31268 Web Systems
6cp
Undergraduate
In this subject, skills are developed to use the computer as a tool for information processing, and transfer over the internet. At the core of this activity is learning Unix, the operating system which supports the majority of web applications. After understanding the operating system as the steering mechanism, students investigate the underlying software which enables calculations, and learn protocols which enable communication across a network.

31269 Business Requirements Modelling
6cp
Requisite(s): 31266 Introduction to Information Systems OR 31060 Information Systems Principles OR 31472 Introduction to Collaborative Systems OR 31484 Information Systems Foundations OR 31414 Information Systems
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject introduces information system concepts, including their static and dynamic components. It describes how these concepts can be used to model information systems to correctly capture their structure and needs. It outlines how the ability to capture information about the system in ways understood by its eventual users improves the final quality of the system. The subject introduces various analysis approaches found in contemporary system development, including object-oriented methods, entity-relationship modelling and describes the relationships between these techniques and their application.

31270 Networking Essentials
6cp
Recommended studies: some knowledge of computer networking is useful but not essential
Undergraduate
Computer networks are now business critical in all modern organisations and business enterprises. They are important in everyday life. This subject introduces students to the fundamental issues in modern data communications and computer networks. It is essential knowledge for all users of IT, IT professionals and those who wish to specialise in computer networking.

Students learn about the layered networking model and are introduced to networking devices and protocols. They learn how these are used in computer networks and in net-based application programs. The primary focus of this subject is Local Area Networks (LAN). Student practical work includes designing and building simple peer-to-peer networks and LANs that are connected to the Internet. The core set of protocols employed on the global Internet, TCP/IP, is studied.

31271 Database Fundamentals
6cp
Requisite(s): 31267 Programming Fundamentals OR 48023 Programming Fundamentals
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: it is assumed that students are familiar with basic system analysis concepts and have basic software skills
Undergraduate
This subject introduces students to the fundamentals of effective database systems. Students are taught how data is structured and managed in an organisation in a way that can be used effectively by applications and users. They also learn to use the language SQL for effective data retrieval and modification. This subject teaches students to appreciate the significance and challenges of good database design and management, which underpin the development of functional software applications.
Organisations in Australia and around the world are increasingly focusing on sharing information and integrating business activities in ways in which information systems can support business networking. This is particularly true in organisations that are engaged in collaborative efforts and need to efficiently manage data. The development of inter-organisational networks is a critical aspect of modern business practices, as it facilitates the exchange of information and resources. To support these efforts, professionals need to have a strong understanding of requirements engineering, database principles, and software development. This knowledge helps in effectively designing and implementing systems that support organisational goals and improve operational efficiency. Students who are interested in careers in this field may find the following subjects particularly relevant:

31272 Project Management and the Professional 6cp
Requisite(s): [31269 Business Requirements Modelling OR 31424 Systems Modelling] AND [78 credit points of completed study in 00000-99999 OR 54 credit points of completed study in C10229 Bachelor of Science in Games Development] OR [31476 Systems Development Project OR 31281 Systems Development Project]
These prerequisites may not apply to students in certain courses. See access conditions.
Recommended studies: a general awareness of the systems management and development process, the nature of the IT industry and current social and political issues.
Undergraduate
This subject covers managing the development and implementation of project solutions with particular emphasis on information systems project management and professionalism. It considers the roles of project and stakeholder management, particularly from the viewpoint of the practitioner as a member of a project team. There is a focus on both organisational and process issues together with the factors that impact quality outcomes associated with different phases of project development. It also considers the professional responsibility of IT workers and the impact of IT on organisations and society.

31274 Network Management 6cp
Requisite(s): 31277 Routing and Internetworks OR 31471 Networking 2
Recommended studies: reasonable familiarity with Windows 2000; some experience with router configuration and protocols
Undergraduate
This subject explains the role of the network manager and the network management system. It discusses the components of network management, i.e. fault management, performance management, configuration management, security management and accounting management. The integration of the components into an enterprise management system is addressed. The lecture material is integrated with laboratory sessions throughout, which allows students to experience aspects of network management including the skills of using basic network management tools and application for network maintenance.

31275 Mobile Networking 6cp
Requisite(s): 31270 Networking Essentials OR 31467 Networking 1 OR 31486 Data Communications OR 31516 Networking Fundamentals OR 48720 Network Fundamentals
Recommended studies: basic understanding of networking and telecommunication concepts
Undergraduate
This subject covers the principles and applications of wireless and cellular telecommunication networks, and their integration with the internet. Various wireless network technologies (WiMAX, IEEE 802.11, Zigbee, Bluetooth) and cellular network technologies (GSM, UMTS, 4G) are introduced. The emphasis is on the concepts, infrastructure and protocols for supporting device/user mobility. The subject also introduces techniques for designing applications for mobile devices, and a mobile application design project at the end of the subject consolidates the learning the student has achieved.

31276 Networked Enterprise Architecture 6cp
Requisite(s): 31269 Business Requirements Modelling OR 31060 Information Systems Principles OR 31472 Introduction to Collaborative Systems OR 31484 Information Systems Foundations OR 31749 Internet Commerce OR 31475 Requirements Engineering OR 31424 Systems Modelling
Recommended studies: knowledge of procedures used to elicit and specify information systems
Undergraduate
Organisations in Australia and around the world are increasingly recognising that they do not operate in isolation and that competitive advantage depends on business networks. This subject introduces ways in which information systems can support business networking, focusing on sharing information and integrating business activities with business partners.
Topics include:
• contractual arrangements and planning
• the role of service and networking standards in the development of inter-organisational networks
• evolving business collaboration
• EDI and exchange of transaction data
• the establishment and management of supply chains.
Students learn how to elicit architectural requirements, develop specifications and design distributed application architectures to support networked business environments.

31277 Routing and Internetworks 6cp
Requisite(s): 31270 Networking Essentials OR 31467 Networking 1 OR 31486 Data Communications OR 48720 Network Fundamentals
Recommended studies: open system interconnection (OSI), transmission control protocol/internet protocol (TCP/IP) and data network models; knowledge of networking terminology, data transmission media, data networking components and devices; internet protocol addressing and variable-length sub-netting mask (VLSM)
Undergraduate
This subject extends the work done in the prerequisite subject. Students who are not interested in networking as a career develop a clear model of how networks can impact network-based applications. Students who are interested in a career in networking practice or research develop sound knowledge and skills to pursue a networking specialisation. Students learn the role of routing protocols and how to compare them; how to design construct and implement small to medium-sized intranets; and how to perform basic management and security tasks. The role of TCP/IP, ICMP and other protocols in IP networks are evaluated. Students also learn how Cisco routers are used for the practical work.

31280 Strategic IT Project 6cp
Requisite(s): 31272 Project Management and the Professional OR 31478 Project Management and Quality Assurance OR 31454 Project Management and the Professional
Recommended studies: systems design; requirements gathering; project planning; networking; report writing; presentations; working in teams
Undergraduate
This subject deals with issues involved in strategic level analysis and design in a corporate information systems environment. Through a major case study, it reinforces material previously studied, while giving groups of students scope to use their own judgment in applying their knowledge. It stresses the development and assessment of alternative approaches to a system strategy. Senior management and communication skills are also developed.

31281 Systems Development Project 12cp
These prerequisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject teaches students how to design, develop and evaluate a software system meeting predefined quality characteristics of functionality (suitability, accuracy, security), usability (understandability, learnability, operability), and maintainability (analysability, changeability, stability, testability). A case study approach is used to explore the design and development of a complex set of information systems services. The application domain is a commercial setting with a special focus on integration of new and legacy systems. The project is done in highly autonomous teams that, while supervised and directed, are ultimately responsible for the project and delivery of the expected outcomes.
31282 Systems Testing and Quality Management
6cp
Requisite(s): 31269 Business Requirements Modelling OR 31475 Requirements Engineering OR 31424 Systems Modelling
Undergraduate
This subject provides students with the practical knowledge and skills that are necessary to effectively measure and control the quality of software products. It covers software quality assurance and management principles and practice together with systems and software testing approaches.

31283 WANs and Virtual LANs
6cp
Requisite(s): 31277 Routing and Internetworks OR 31471 Networking 2
Undergraduate
This subject extends the work covered in Networking Fundamentals and Routers, Routing Basics and Internetworking, VLANs (Virtual LANs) and WAN (Wide Area Network) protocols are studied. VLANs connecting to different WAN technologies are implemented. Practical work is on Cisco switches and routers within the UTS Cisco Academy. After completing this subject students should be prepared for sitting the industry certification CCNA (Cisco Certified Network Associate) exam.

31284 Web Services Development
6cp
Requisite(s): 31267 Programming Fundamentals OR 31465 Object-oriented Programming OR 48023 Programming Fundamentals AND (31268 Web Systems OR 31466 Principles of Distributed Computing) Recommended studies: understanding of basic distributed computing concepts, an ability to create web pages, and good familiarity with the Java programming language
Undergraduate
Web-based applications play an important role in contemporary commercial software development. This subject introduces concepts and technologies related to the development of modern web applications.

31285 Mobile Applications Development
6cp
Requisite(s): 31244 Applications Programming OR 31469 Object-oriented Design OR 48024 Applications Programming
Recommended studies: basic programming experience is assumed
Undergraduate
This subject covers theory and technologies for the development of distributed applications for mobile devices as well as introducing design principles for applications for small devices. It addresses android for mobile devices. The subject also provides a basis for understanding how different techniques can be used to develop distributed mobile applications.

31335 Extreme Programming
6cp
Recommended studies: the ability to program in a high-level object-oriented programming language such as Java, C# or Visual Basic
Undergraduate
This subject introduces extreme programming practices and, in general, agile methodologies. It covers the topics of analysis, estimation, iteration planning, testing and pair programming within the extreme programming methodology. It also looks at how to introduce extreme programming into an organisation.

31338 Network Servers
6cp; availability: undergraduate degree students
Requisite(s): [31268 Web Systems AND 31270 Networking Essentials OR 48720 Network Fundamentals]
Undergraduate
Through this subject students gain an understanding of the design principles and implementation issues for the deployment of network servers based on Windows and Linux operating systems. Techniques and skills for system administration are developed through a comprehensive sequence of laboratory activities in combination with mini-lectures and design tasks.

31482 Honours Project
12cp
Requisite(s): 32931 Technology Research Methods
There are also course requisites for this subject. See access conditions.
Recommended studies: a thorough understanding of the thesis area and topic
Honours
The Honours Project is the second part of the honours program where students undertake a research proposal as developed in the first semester. This involves a substantial investigation under the supervision of a member of academic staff and is examined on the quality of the written report.

31489 Industry Study 1
6cp; availability: Bachelor of Information Technology students
Requisite(s): 24 credit points of completed study in C10143 Bachelor of Information Technology
There are also course requisites for this subject. See access conditions.
Undergraduate
Students undertake an academic study of a particular issue in IT, using their experience in their first industry semester as a case study. Study topics are chosen in consultation with the mentor from: business benefits of IT; business processes; IS design methods; IS usability; and particular technologies used during industry experience.

Typical availability
Spring semester, City campus

31490 Industry Study 2
6cp; availability: Bachelor of Information Technology students
Requisite(s): 92 credit points of completed study in C10143 Bachelor of Information Technology
There are also course requisites for this subject. See access conditions.
Undergraduate
Students undertake an academic study of a particular issue in IT, using their experience in their second industry semester as a case study. Study topics are chosen in consultation with the mentor from: business benefits of IT; business processes; IS design methods; IS usability; and particular technologies used during industry experience. A different topic is chosen from that undertaken by the student in 31489 Industry Study 1.

Typical availability
Autumn semester, City campus

31491 Industry Project 1
9cp; availability: Bachelor of Information Technology students
Requisite(s): 24 credit points of completed study in C10143 Bachelor of Information Technology
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject is based on the student's first industry placement with a Bachelor of Information Technology sponsor. Subject components are preparation for industry experience with sponsor seminars, project work with the sponsor and a reflective report on personal and organisational aspects of the industry experience.

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
31492 Industry Project 2
9cp; availability: Bachelor of Information Technology students
Requisites: 92 credit points of completed study in C10143 Bachelor of Information Technology
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject is based on the student’s second industry placement with a Bachelor of Information Technology sponsor. Subject components are preparation for industry experience with sponsor seminars, project work with the sponsor and a reflective report on personal and organisational aspects of the industry experience.

Typical availability
Autumn semester, City campus

31675 Thesis (Computing Science)
0cp
Undergraduate
Further information on this subject is available from the UTS: Information Technology research administration officer.

31676 Thesis (Analytics)
0cp
For subject description, contact UTS: Information Technology.

31735 Information Systems and Organisation Development
6cp
Requisites: [36 credit points of completed study OR (I31484 Information Systems Foundations OR 31266 Introduction to Information Systems OR 31414 Information Systems OR 31060 Information Systems Principles OR 31472 Introduction to Collaborative Systems)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces theories dealing with the behaviour of people in organisations, the structure of organisations, the nature of technology and the relationships between these three areas. Systems thinking is used to bring these views together as a basis for organisational development in an environment changing through the influence of information systems.

31748 Programming on the Internet
6cp
Requisites: [I31268 Web Systems AND (31267 Programming Fundamentals OR 31465 Object-oriented Programming OR 31488 Programming Foundations OR 31508 Programming Fundamentals OR 48023 Programming Fundamentals)]
Recommended studies: basic knowledge of programming languages and Unix systems
Undergraduate
This subject introduces students to the specifics of the World Wide Web (WWW) and internet-based programming. The evolution of the internet and its technical foundation is studied as well as basic techniques for presenting data, text and pictures on the WWW. The client/server paradigm is explored in detail featuring website design and construction using HTML (hypertext markup language), CSS (cascading style sheets), PHP (hypertext preprocessor), MySQL (backend database), and JavaScript. This subject provides a sound basis for understanding how the WWW functions, how to construct websites and how to write software for the WWW using scripting techniques.

31777 Human-Computer Interaction
6cp
Requisites: [31269 Business Requirements Modelling OR 31475 Requirements Engineering OR 31476 Systems Development Project OR 31485 Systems Development OR 48440 Software Engineering Practice OR 31426 Systems Modelling]
Recommended studies: two years full time study in IT or equivalent
Undergraduate
This subject focuses on the design, evaluation and implementation of interactive computing systems for human use within actual situations. Students gain an understanding of human-computer interaction (HCI) principles, including the main concepts, tools and techniques available to build user-centred systems. The subject considers the effects on use of the different metaphors for human activity that designers use in their systems and how user-centred design and evaluation methods can improve the usability of computer systems.

31927 Application Development with .NET
6cp
Requisites: [31267 Programming Fundamentals OR 31488 Programming Foundations OR 31508 Programming Fundamentals OR 48023 Programming Fundamentals]
Recommended studies: a good understanding of programming constructs, 0-0 concepts and programming practices
Undergraduate
This subject introduces C#, Visual Studio and the .NET development environment. The emphasis is on examining the .NET framework and the practicalities of developing software in this setting using the C# language.

Typical availability
Spring semester, City campus

31950 Networked Enterprise Design
6cp
Requisites: [31060 Information Systems Principles OR 31472 Introduction to Collaborative Systems OR 31484 Information Systems Foundations OR 31749 Internet Commerce OR 31414 Information Systems OR 31266 Introduction to Information Systems]
Undergraduate
This subject describes the evolution of systems towards distributed business environments with an emphasis on processes that require people to work together over distance. It describes how people work together and the changes to work practices resulting from the distribution of such work. The subject covers collaboration technologies such as email, video-conferencing, co-authoring and work-flows needed to support distributed business processes. The subject emphasises the design process, describing how to choose and implement collaborative technologies based on systems such as the World Wide Web or Lotus Notes to provide business benefits.

32001 Mobile Commerce Technologies
6cp; availability: Internetworking program students only
Recommended studies: basic internet knowledge
Postgraduate
This subject introduces students to mobile commerce technologies and applications. It highlights the unique challenges associated with the arrival of mobile technologies in the m-enterprise.

32003 Computer Game Design
6cp; availability: MSc in Computing and Master of IT
Recommended studies: familiarity with computer graphics and experience with designing interactive systems
Postgraduate
Designing and building computer games is a challenging task. This subject focuses on the software technologies (such as graphics, networks, software design and artificial intelligence) used in computer games and covers basic interactive design, interface design, game design documentation and play mechanics through hands-on projects.
32004 Game Programming

6cp; availability: MSc in Computing and Master of IT
Recommended studies: trace and debug complex programs using Visual Studio
Postgraduate

This subject covers game-specific programming techniques, algorithms, game testing, game logic, multimedia programming, networking and server design and optimisation of real-time 3D rendering. Students gain sufficient knowledge to extend existing computer game engines or build a basic game engine from scratch.

32005 Strategic Leadership for Innovation

6cp; availability: for Graduate Certificate, Graduate Diploma and Masters in IT Management students only; other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP program leader
Postgraduate

This subject locates organisational leadership practices within a global business context dominated by a revolution in information and communication technology (ICT). Furthermore, it outlines various potential strategic inflection points facing contemporary Australian organisations and suggests leadership practices through which these can be anticipated and addressed effectively. In particular, it advocates strategic leadership practices that adopt innovation as a competitive strategy in response to the challenges of this era.

32007 Strategic Information Technology Investment

6cp; availability: for Graduate Certificate, Graduate Diploma and Masters in IT Management students only. Other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP
Recommended studies: some exposure to the management by projects approach and to strategic analysis and planning
Postgraduate

In today’s global knowledge economy, it is more critical than ever before that business and IT leaders collaborate to maximise the value of their organisation’s human and other resources by making prudent investment decisions. This subject enhances students’ conceptual understanding of best practice techniques for making strategic investment decisions, measuring their success, and feeding learning outcomes back into the decision-making process. This includes people, processes and systems. The role of cultural and political dynamics in the implementation of strategy is also covered.

Note(s)

Students who have completed 21789 Contemporary Management Practices from 2003 onwards may enrol in this subject as an elective.

32009 Advanced Routing Principles

6cp; availability: Internetworking program students only
Recommended studies: 32524 LANs and Routing and 32521c WANS and VLANS
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject complements and extends the theory and practice learned in 32524 LANs and Routing and 32521 WANs and VLANS. It extends skills and knowledge in WAN issues for part-time and full-time connectivity. Frame relay, BSDNs and POTS technologies are deployed. Emerging WAN technologies are introduced. The course is run in the UTS Cisco Systems Network Academy. Cisco routers are programmed as part of practical work. The subject is part of a sequence which will allow students to prepare for the CCNP industry certification.

32010 Wide Area Network Implementation

6cp; availability: Internetworking program students only
Recommended studies: 32521 WANS and VLANS
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject complements and extends the theory and practice learned in 32524 LANs and Routing and 32521 WANs and VLANS. It extends skills and knowledge in WAN issues for part-time and full-time connectivity. Frame relay, BSDNs and POTS technologies are deployed. Emerging WAN technologies are introduced. The course is run in the UTS Cisco Systems Network Academy. Cisco routers are programmed as part of practical work. The subject is part of a sequence which will allow students to prepare for the CCNP industry certification.

32011 Multilayer Switched Networks

6cp; availability: Internetworking program students only
Recommended studies: 32521 WANS and VLANS
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

Recommended studies: knowledge of some routing protocols covered in 32009 Advanced Routing Principals is an advantage

32012 Internet Quality of Service (QoS)

6cp
Recommended studies: 32524 LANs and Routing
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

Recommended studies: introductory level networking technologies including TCP/IP protocol suit, network protocols and applications; familiarity with Unix / Linux environment with shell scripts/socket programming; programming language such as Java/C/C++

This subject explores issues and proposed solutions for the provision of Quality of Service (QoS) on the internet. The internet is being slowly transformed from a best-effort delivery architecture to a services architecture on which networked business applications can be deployed with specified performance criteria. This subject provides students with a detailed and precise discussion on issues related to QoS, different mechanisms to achieve end-to-end QoS based on the internet engineering task force (IETF) proposed architectures and explores their limitations. This subject also teaches advanced skills required to optimise the QoS in converged networks that support voice, wireless and security applications.

32013 .NET Enterprise Development

6cp
Recommended studies: 32998 .NET Application Development AND 32606c Database
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject introduces students to the .NET architecture and the Visual Studio development environment. The emphasis is on examining the .NET framework and the practicalities of developing software in this setting. Particular attention is paid to web development, web services and distributed applications. The design of the framework and the support it provides for language development are also considered in depth. The fundamentals of a programming language is introduced as required.
This subject explores principles and techniques of creating interactive multimedia and associated tools. Typical availability: Spring semester, City campus.

This subject presents material at a high level by internationally recognised specialists. Typical availability: Autumn semester, City campus.

Patterns are fundamental to many aspects of intelligence. They are produced in pattern recognition systems for image processing and data mining, and are consumed by pattern-matchers to find useful information. Typical availability: Summer session, City campus.

Digital multimedia is a combination of media (text, pictures, audio and video) that is represented digitally and hence can be treated as data by computer programs. Typical availability: Autumn semester, City campus.

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Patterns are fundamental to many aspects of intelligence. They are produced in pattern recognition systems for image processing and data mining, and are consumed by pattern-matchers to find useful information. Typical availability: Summer session, City campus.
32113 Advanced Database
6cp
Requisite(s): 31487 Database Management Systems OR 31271 Database Fundamentals OR 31061 Database Principles OR 31474 Database Fundamentals OR 32606 Database
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: a clear understanding of basic database techniques including relational database technology
Postgraduate
This subject reviews material on relational databases and covers advanced topics such as distributed databases. Data warehousing and mining techniques, implementation and management are covered in detail.

32118 Mobile Communications and Computing
6cp
Recommended studies: basic understanding of networking and telecommunication concepts
Postgraduate
This subject covers the development of the wireless network technology from cellular networks to IP wireless networks. The emphasis is on the concepts, infrastructure, and protocols for supporting device and user mobility. The subject also focuses on the development of a simple mobile application for small devices.

32120 Introduction to e-Business Technology
6cp
Postgraduate
This subject focuses on developing and maintaining e-business technology and environment. It looks at e-business architectures through the latest technologies in networking communications, business models and e-business management principals. It also examines various important issues, such as e-business applications, contents, telecommunication technologies and internetworking security. Finally, it examines the future trend of the e-business in relation to technological advancement and consumer demand.

32130 Fundamentals of Data Analytics
6cp
Requisite(s): 32113 Advanced Database
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Data mining is the art and science of teasing meaningful information and patterns out of large quantities of data. It combines statistical methods for identifying patterns in data and making inferences with a number of IT technologies, including database technologies for handling massive volumes of data, intelligent and smart systems technologies, visualisation and other multimedia techniques that appeal to human pattern discovery capabilities. The subject offers broad background to data mining methods and their application in practice. It brings together the state-of-the-art research and practice in related areas and provides students with the necessary knowledge and capacity to initiate and lead data mining projects that can turn company data into commercially valuable information.

32131 Data Mining and Visualisation
6cp
Requisite(s): 32130 Fundamentals of Data Analytics
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Modern businesses (including e-commerce and e-business systems) integrate data mining technologies to discover new information and knowledge about products they offer, customers they serve and the relations between them. Data mining incorporates a number of IT technologies for data analysis and visualisation. This subject offers broad coverage of the application of data mining technologies to modern enterprises.
Note(s)
This subject is not currently available to students for enrolment.

32133 e-Market Trading Technology
6cp; availability: Honours and postgraduate degree students
Recommended studies: ability to program in Java, and to work comfortably with Java documentation
Postgraduate
This subject covers the following topics: electronic markets and their role in electronic business; electronic trading and its role in electronic markets; economic mechanisms for trading and bargaining in markets and exchanges; an examination of the mechanisms being used in various existing commercial electronic markets; the significance of strategies, equilibria and efficiency to the design of automated trading systems; and the design, construction and deployment of smart trading systems for electronic markets. This subject reinforces the students' Java programming skills.

32144 Technology Research Preparation
6cp
Postgraduate
This subject provides postgraduate technology students with academic language skills appropriate to their course. The subject begins with the techniques necessary to develop a literature review. Professional ethics is then taught, especially in the research context. Next, the class breaks into two streams. Those undertaking research degrees take the research stream and produce a literature review within a skeleton of their dissertation. Those undertaking coursework degrees take the professional stream and produce a complete project proposal, suitable for implementation in 32933 Research Project.
Typical availability
Autumn semester, City campus

32145 Commercial Environment of IT
6cp
Postgraduate
This subject places local IT industries within the local and global economic context. Topics covered include the history, direction and structure of the global IT industry; typical IT activities such as marketing, support, hardware and software production; various organisation models for IT supply, such as in-house development, contracting and outsourcing; legal and ethical issues; the local economy in the global environment; and local IT opportunities. Local economies covered are Australian and two or three other economies that may be of interest to the majority of students.

Note(s)
This subject is not currently available to students for enrolment.

32146 Data Visualisation and Visual Analytics
6cp
Requisite(s): 32130 Fundamentals of Data Analytics
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers the core data and information visualisation technologies that support data mining, and knowledge management and navigation through various visual metaphors. Students examine visualisation systems, tools, techniques and visual metaphors and learn how to evaluate the different visualisation approaches. Students also explore data mining applications that rely on visualisation and learn how to develop new and innovative visualisations to support information exploration, decision-making, communication and information sharing in a variety of domains.

Note(s)
This subject is not currently available to students for enrolment.

32147 Introduction to IT Management
6cp
Postgraduate
This subject provides an introduction to management with an emphasis on information technology (IT) management. The subject covers various management theories of organisations and how these may apply to IT management. Contemporary issues and management topics specific to information technology are also considered.

Note(s)
This subject is not currently available to students for enrolment.

Access conditions are available in the individual subject descriptions in the online handbook.
32148 Enterprise Computing
6cp
Recommended studies: basic understanding of internet standards and technologies including HTML, XML, HTTP, and Java; understanding of fundamental database concepts and techniques, including SQL, experience with systems development gained through work experience or university projects
Postgraduate
Computing professionals are facing new challenges as a result of increasing complexity in the enterprise computing environment and fast-evolving technologies. This subject focuses on standards, architectures and technologies used in enterprise computing. Topics include component frameworks, service-oriented architectures, web services, data integration and XML techniques.

32208 Information Systems Strategy
6cp
Recommended studies: basic understanding of information systems and technologies and their use in business
Postgraduate
IT strategy is a key concern for both IT managers and managers of other business functions within enterprises. Through a brief presentation of key issues, case studies and presentations of students’ own experiences, this subject deals with the development, evaluation and impact of information systems in organisations; choices that, together, form part of IT and IS strategy.

32209 Advanced Topics in Computer Networks
6cp
Recommended studies: A basic knowledge of statistics and/or experience in programming in C, C++ or Java
Postgraduate
This subject allows students to study several major advanced topics in networking in depth in an informal, small group situation. Learning is based around a series of readings, where a set of readings is discussed each week by the students and the subject coordinator.

32210 Computer Vision and Image Processing
6cp
Recommended studies: Experience in developing programs in the C programming language
Postgraduate
Computer vision is a widespread discipline playing a relevant role in fields such as multimedia, robotics, automated industrial inspection, visual surveillance and medicine. This subject aims to give students the ability to understand how a computer can emulate vision functions. It also enables students to design and implement computer vision and image processing applications.

32309 Digital Forensics
6cp
Requisite[s]: 32548 Network Security
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: an understanding of the principles and objectives of network security and of the fundamentals of network security technologies; CCNA-level networking concepts and skills, in particular packet analysis skills
Postgraduate
This is a practice-based subject, using material based on the textbooks. Learning is laboratory-based. The emphasis is on digital forensics applications, in particular:
- forensic analysis of a digital storage device where evidence is recovered to support or oppose a hypothesis before a criminal court
- eDiscovery (a form of discovery related to civil litigation)
- intrusion investigation into the nature and extent of an unauthorised network intrusion.

32310 Network Security Appliances
6cp; availability: Internetworking program students only
Requisite[s]: 32548 Network Security
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: understanding of the principles and objectives of network security and of the fundamentals of network security technologies; CCNA-level networking concepts and skills, in particular CCNA-level routing and switching skills
Postgraduate
This is a practice-based subject, using material based on the Cisco Network Security course. Learning is laboratory-based. The emphasis is on network security appliances, in particular:
- security technologies, products and solutions
- firewall and secure router design, installation, configuration and maintenance
- AAA implementation using routers and firewalls
- VPN implementation using routers and firewalls.

32405 User-Centred Design Methods
6cp
Postgraduate
There are now a range of design methods that claim to be ‘user-centred’. This subject identifies the major methods, defines their similarities and differences, and explores their theoretical backgrounds and commitments. It develops student expertise in the application and use of soft systems methodology, participatory and contextual design methods, action research and ethnographic studies of work, practice and technology use. Students also extend their understanding of the development and use of user scenarios, personas, and other representations of work and users in the technology design process.

Note(s)
This subject is not currently available to students for enrolment.

32501 Computer Graphics
6cp
Recommended studies: students must be competent programmers in a high level language such as C, C++, Java, or Visual Basic; some experience with an integrated development environment (IDE) such as Visual C++ is an advantage, but is not essential; knowledge of linear data structures is required
Postgraduate
This subject provides a thorough introduction to the computer representation, manipulation and display of pictorial information. Topics covered include passive and interactive graphics; hardware devices and programming; mathematical tools for 2D and 3D graphics; 2D and 3D graphics algorithms; human–computer interaction; rendering algorithms; and application areas of computer graphics.

32509 Interaction Design
6cp; availability: Honours and postgraduate degree students
Recommended studies: students should have at least two years IT-related work experience
Postgraduate
Interaction Design (ID) is defined as designing interactive products to support people in their everyday and working lives. This entails creating user experiences that enhance and extend the way people work, communicate and interact. ID extends the focus of Human-Computer Interaction (HCI) beyond designing computer systems for a single user sitting in front of a single machine. One of the central challenges is to keep abreast of technological development, to understand the usability issues associated with these and to use this understanding to ensure that technology is harnessed for maximum human benefit. This subject focuses on user-centred approaches to, and methods for, technology design. It provides students with an understanding of the principles of Interaction Design as well as concepts, tools and techniques that can assist in the creation of both useful and usable technology that supports users’ activities. The subject introduces both the social and the technological aspects of Interaction Design as well as usability design and evaluation methods.
32510 Principles of Object-oriented Programming in C++
6cp; availability: Honours and postgraduate degree students
Requisite(s): 32104 Agile Method Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Topics in this subject include: review of object-oriented design principles and practice; and objects, classes, run-time instantiation, inheritance, information hiding, polymorphism and libraries, and their implementation in ANSI C++.

32513 Advanced Data Mining Algorithms
6cp
Requisite(s): 32130 Fundamentals of Data Analytics
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Data mining (DM) is an exciting new field combining databases, artificial intelligence, machine learning and visualisation, among others. It is applied in many fields of business, industry and science to support knowledge discovery and understanding of customers, products and processes.
Central to DM are the algorithms themselves. This subject builds on previous DM subjects to give an understanding of how both the basic and more powerful and subtle algorithms function.

32516 Internet Programming
6cp; 1 Stpw (lecture), 1 Stpw (laboratory)
Recommended studies: basic knowledge of programming languages and Unix systems
Elective subject that is available for all postgraduate course work students
Postgraduate
This subject introduces students to the specifics of the World Wide Web (WWW) and internet-based programming. The evolution of the internet and its technical foundation is studied as well as basic techniques for presenting data, text and pictures on the WWW. The client/server paradigm is explored in detail featuring website design and construction using HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), PHP (Hypertext Pre-processor), MySQL (back-end database) and Java techniques. This subject provides a sound basis for understanding how the WWW functions, how to construct websites and how to write software for the WWW using scripting techniques.

32520 UNIX Systems Administration
6cp; availability: Internetworking program students only
Requisite(s): 32547 UNIX Systems Programming
Recommended studies: students must be competent users of the UNIX operating system before commencing this subject
Postgraduate
Students learn about basic UNIX systems administration, including: registering users; file systems; networking; and performance management. Students should be competent users of UNIX. There is a laboratory component to the subject.

32521 WANS and VLANS
6cp
Requisite(s): 32524 LANS and Routing, and with a minimum mark of 50%
OR 31277 Routing and Internetworks OR 31471 Networking 2
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject extends the work covered in 32524 LANS and Routines. WAN and LAN design is introduced. Use of the UTS Cisco Academy resources are used for practical work. After completing this subject students may sit for the industry certification CCNA (Cisco Certified Network Associate).

Note(s)
This subject was formerly called 32521 Internetworking.

32523 Operating Systems for Network Security
6cp
Requisite(s): 32547 UNIX Systems Programming
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: basic programming and computer architecture concepts, scripting, data structures, TCP/IP, routing
Postgraduate
This subject reviews the principles of operating systems and Network Appliance Architectures currently used in internetworking, such as UNIX, current MS 200x releases, and Cisco IOS for routers. It examines how to harden an OS against attack. It also covers threats to network appliances and hosts, especially OS vulnerabilities, e.g., buffer overflows, but also considers bugs, application vulnerabilities and network protocol weaknesses, and counters to these threats through improved OS or hardware designs, or through processes such as patching.

32524 LANS and Routing
6cp; availability: Internetworking program students only
Recommended studies: competency in the use of PCs, fundamental knowledge of the working principles of a computer, basic understanding of computer networking and the internet
Postgraduate
This subject provides students with knowledge of LAN hardware and physical layer standards, and basic computer networking concepts and principles, and introduces local area network (LAN) design and the use of routers and routing in autonomous system intranets. It also explains how these access WANS. Use of the Cisco Academies online resources and practical work in wiring and configuring LANs, including Cisco routers, is an integral part of this subject.

32525 Web Services Technologies and Applications
6cp
Requisite(s): 32516 Internet Programming
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: good understanding of Java fundamentals and have a basic understanding of networking concepts
Postgraduate
This subject introduces students to contemporary service-oriented technologies available for building distributed applications. It introduces distributed computing programming techniques such as sockets and XML web services and discusses further advanced topics in this field.

32527 Internetwork Design
6cp
Requisite(s): 32524 LANS and Routing
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: a good understanding of networking technologies and protocols; some experience with router configuration and protocols
Postgraduate
This subject combines the principles studied in 32524 LANS and Routing and 32521 WANS and VLANS and extends them. These are then applied to the design of internetworks.

32528 Network Management
6cp
Requisite(s): 32524 LANS and Routing
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: reasonable familiarity with Windows 2000, and some experience with router configuration and protocols
Postgraduate
This subject explains the role of the network manager and the network management system. It discusses the components of network management, i.e. fault management, performance management, configuration management, security management and accounting
management. The integration of the components into an enterprise management system is addressed. The lecture material is integrated with laboratory sessions throughout, which allow students to experience aspects of network management.

**32530 Building Intelligent Agents** 6cp
Recommended studies: ability to program in a suitable language such as Java or C#
Postgraduate
This subject introduces students to the concepts of agent computing, and applies those concepts in the context of intelligent internet-based systems. A selection of artificial intelligence techniques are reviewed and related to agents. Students gain sufficient knowledge to be able to take more specialised subjects in internet-based computing and artificial intelligence. By the end of this subject, the students should be able to design and implement a simple intelligent agent.

**32531 Global Information Systems** 6cp
Recommended studies: a general awareness of computers, the internet and modern business issues (particularly globalisation) Postgraduate
This subject covers new requirements placed on information systems arising out of the globalisation of business operations. It covers new ways of doing business in global environments, including formation of alliances and joint ventures, and ways that information systems must be developed to support them. The interaction of technical issues and social issues, including culture, is studied.

**32535 Database in Distributed Environments** 6cp
Recommended studies: it is assumed that students are familiar with basic database and network concepts and have a working knowledge of SQL together with some knowledge of programming concepts Postgraduate
This subject covers a range of topics in distributed databases. The main topics include: distributed database design; distributed transactions and queries; and data replication strategies. Modern database server techniques are introduced.

**32536 Advanced Software Modelling** 6cp
Recommended studies: general computer science/information systems/software engineering Postgraduate
This subject looks at the basic principles of modelling in software engineering. Various modelling languages and notations are used and explained:
- UML (metamodel and notation) including classes, objects, interfaces, relationships and use cases; more advanced modelling (roles, responsibilities and stereotyping); and the use of UML in practice
- BPMN including business process diagrams (an alternative to activity diagrams); the use of modelling with emerging technologies such as cloud computing and mobile computing is also a focus.

**32541 Project Management** 6cp
Recommended studies: an understanding of IT projects and an awareness of the IT industry Postgraduate
This subject covers the management of the development and implementation of information technology solutions, with particular emphasis on information systems, project management, and contemporary issues in the delivery of information technology solutions to the business. It considers the role of project management in business and identifies the managerial control and reporting aspects necessary from inception to implementation of a software development project.

**32543 3D Animation** 6cp; availability: Honours and postgraduate degree students
Recommended studies: some basic computer graphics knowledge is useful; drawing; 2D digital image processing such as basic Photoshop
Postgraduate
This subject covers the three major rendering techniques used for image synthesis in computer graphics: ray tracing, and radiosity, with an emphasis on ray tracing. Topics covered include reflection models, ray-object intersections, recursive ray tracing, transparency and refraction, textures, antialiasing, shadows, acceleration techniques for ray tracing, triangle meshes, global illumination, and radiosity for diffuse environments.

**32544 Advanced Image Synthesis Techniques** 6cp
Recommended studies: students must be competent programmers in C+ or, and have experience at implementing elementary two and three dimensional graphics algorithms Postgraduate
This subject covers the three major rendering techniques used for image synthesis in computer graphics: rasterisation algorithms, ray tracing, and radiosity, with an emphasis on ray tracing. Topics covered include reflection models, ray-object intersections, recursive ray tracing, transparency and refraction, textures, antialiasing, shadows, acceleration techniques for ray tracing, triangle meshes, global illumination, and radiosity for diffuse environments.

**32547 UNIX Systems Programming** 6cp
Recommended studies: competent UNIX computer user with some programming experience Postgraduate
This subject allows students to develop their Perl and UNIX knowledge and skills appropriate for professional practice in a UNIX environment. The subject also exposes students to other high level ‘scripting’ utilities. This is of general benefit and is not covered elsewhere in the course.

**32548 Network Security** 6cp
Requisite(s): 32524 LANS and Routing
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: a sound knowledge of computer networking Postgraduate
This subject consolidates the student’s understanding of network security by considering security principles, methodologies and technologies from a technical and management perspective. Issues such as policy-based networking, directory services, IPsec, and basic methodologies such as firewalls, proxies, encryption and authentication are dealt with.

**32549 Advanced Internet Programming** 6cp
Requisite(s): 32516 Internet Programming
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: basic understanding of HTML/CSS, intermediate Java programming skills Postgraduate
This subject complements and extends 32516 Internet Programming. It focuses on server side issues and the construction of medium- to large-scale web-based business-to-consumer (B2C) and business-to-business (B2B) applications using Java Enterprise Technology. In this subject, application servers, integration of data from multiple sources, transactions, and delivery of resultant data as XML or WAP to multiple client mechanisms are dealt with. Topics include Java Server Pages (JSP), servlets, Java Data Base Connectivity (JDBC), Java Naming and Directory Interface (JNDI) and Enterprise Java Beans (EJB). Consideration is also given to dealing with legacy systems. RMI and CORBA are discussed.
32550 Advances in Requirements Engineering
6cp
Recommended studies: a good understanding of software development process
Postgraduate
Requirements engineering is a multi-disciplinary, human-centred and communication-rich activity of software and systems development. This subject introduces the foundations of requirements engineering research and practice. The range of advanced techniques, methods and tools that support activities making up the requirements engineering process is also studied.

Note(s)
This subject is not currently available to students for enrolment.

32552 IP Telephony and Voice over IP
6cp; availability: Internetworking program students only
Requisite(s): 32521 WANS and VLAN5
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
Telephony based around the internet protocol (IP) is a significant issue for modern businesses as well as to traditional voice service providers. This subject provides an introduction to converged voice and data networks as well as to the challenges faced by its various technologies. Practical work allows students to learn about connecting telephone users via the Public Switched Telephone Network (PSTN) using a router, thus bypassing traditional PBX devices. Practical work also includes the connecting of IP phones directly across WAN or LAN data links using Voice over IP (VoIP). Cisco Call Manager Express is used in laboratory work. VoIP Quality of Service (QoS) issues and techniques are discussed and implemented. It is assumed students have knowledge of the IP, router configuration and routing protocols.

32553 Leadership and People Management
6cp; availability: Graduate Certificate, Graduate Diploma and Master of Business in IT Management students only; other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP program leader
Postgraduate
This subject explores the phenomenon of organisational leadership within a global knowledge economy dominated by a revolution in information and communication technology (ICT). Its focus is on the leadership practices that generate the intangible capital resources (ICRs) required for success in this knowledge economy; in particular those practices that build a social environment characterised by strong relationships and committed, focused endeavour. In the development and leveraging of these ICRs, and the relationships that generate them, critical practices around the management of power are identified and explored. Furthermore, the subject attempts to develop in students appropriate theoretical and conceptual frames of reference and knowledge bases for the mastery of such practices.

Typical availability
Spring semester, City campus

32555 Fundamentals of Software Development
6cp
Postgraduate
In this subject students are introduced to a range of object-oriented systems development methodologies used throughout the software development process, from specifications to code generation and testing. Through the use of a case study and work in project teams, the subject aims to develop students' teamwork skills; ability to develop user specifications, ability to design systems that meet the specifications; and ability to demonstrate that the objectives of the system are met. Topics such as systems requirements determination, system design, object-oriented design and systems testing are covered. The subject also includes a brief introduction to programming.

Typical availability
Autumn semester, City campus
Spring semester, City campus

32557 Enabling Enterprise Information Systems
6cp
Postgraduate
This subject introduces students to the uses of information systems in generating business value for organisations. It deals with the different types of enterprise information requirements, techniques of IS development to accommodate those requirements and managing the ongoing information needs of the enterprise. The emphasis is on requirements gathering, analysis and design activities including working in design teams.

32558 Business Intelligence
6cp
Recommended studies: general knowledge of business organisations and uses of IT and the internet
Postgraduate
This subject explores the phenomenon of organisational leadership within a global knowledge economy dominated by a revolution in information and communication technology (ICT). Its focus is on the leadership practices that generate the intangible capital resources (ICRs) required for success in this knowledge economy; in particular those practices that build a social environment characterised by strong relationships and committed, focused endeavour. In the development and leveraging of these ICRs, and the relationships that generate them, critical practices around the management of power are identified and explored. Furthermore, the subject attempts to develop in students appropriate theoretical and conceptual frames of reference and knowledge bases for the mastery of such practices.

Typical availability
Spring semester, City campus

32560 IS Architecture - A Cloud Perspective
6cp
Postgraduate
This subject focuses on contemporary organisational environments and describes ways to align information system needs to these requirements by facilitating Cloud Computing. It focuses on trends to distributed systems and the need to maintain agility and innovation within competitive environments combining social and knowledge resources using Cloud Computing and related information technologies. Architectures for combining Cloud Computing into integrated information systems that provide cloud computing services to support business operations are studied intensively in this subject. Different kinds of Cloud Computing and related technologies are identified, including those for information exchange and sharing, developing personal relationships and knowledge sharing.

32561 Managing Organisational Change
6cp; availability: Graduate Certificate, Graduate Diploma and Master of Business in IT Management students only; other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP program leader.
Postgraduate
This subject explores a set of fundamental concepts and models relating to change management in the evolving knowledge economy. Central themes include an understanding of core organisational process and structure, and the ways in which people and technology leaders can drive strategic change. The subject presents different ideas in, and approaches to implementing change in real companies through a set of case studies. Through a collaborative process involving participants, academics and industry experts, students enhance their conceptual understanding of organisational change, and apply this
emergent understanding to their workplace practices through the completion of a work-based change management project. This subject challenges students for higher management roles.

**32562 Strategic Business Management**
6cp; availability: Graduate Certificate, Graduate Diploma and Master of Business in IT Management students only; other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMF program leader
Recommended studies: as required for admission to the IT Management program
Postgraduate
Focused on creating sustainable value, strategic management practice is fundamental to the survival and growth of an organisation. It is not only the core concern of the organisation’s executive leadership team, but also requires coherent execution by all members of the organisation. This subject examines the theories and practices of strategic business management. It explores emerging theories and frameworks that interlink strategy, innovation and leadership to achieve sustainable competitive advantage and organisational growth in the face of continuous environmental change.

**32563 IT Professional and Society**
6cp
Postgraduate
This subject covers the body of ideas and commonly held principles that apply to professional standards and ethical behaviour in the information technology industry. The intent is to expose students to standards of professional behaviour and legal responsibility through case studies and current media-related articles featuring potential ethical and/or legal situations/dilemmas. It considers the history of information technology, the impact of information technology on society, the IT profession’s codes of ethics and codes of conduct and the legal requirements pertaining to the information technology industry.

**32567 Business Intelligence for Decision Support**
6cp
Recommended studies: it is assumed that students are familiar with basic information system concepts and have basic software, database and mathematical skills
Postgraduate
Business intelligence is an umbrella term that combines architectures, tools, databases, analytical tools, applications and methodologies. The major objectives of business intelligence is to enable interactive access to data and to give business managers the ability to conduct analysis and make better decisions.

Decision support systems are computer-based information systems that combine models/methods and data in an attempt to solve semi/non-structured decision problems with extensive user involvement through a friendly user interface. Business high-level decisions are often semi/non-structured and require an increased level of intelligent and technical support, in particular, when they become rich in data.

Decision support systems can be integrated with variable business intelligence techniques to support related decision problem solving. This subject introduces business intelligence, decision support systems, group decision support, intelligent decision support, web-based support systems, decision optimisation technologies, personalised recommender systems. The subject also covers how to design, implement and integrate business intelligence techniques with methods to support business decision-making.

**32568 Business Intelligence Modelling and Analysis**
6cp
Recommended studies: it is assumed that students are familiar with basic system analysis concepts and have basic software, database and mathematics skills
Postgraduate
This subject introduces how multi-data sources are used in the development of strategic direction for businesses. It teaches students how to successfully utilise the information contained in such data and to appropriately extract intelligence from the data to support decision-making through conducting modelling and analysis. It also presents the required business intelligence tools and techniques including statistically based methodologies.

**32569 Enterprise Business Requirements**
6cp
Recommended studies: basic principles of software engineering and adequate knowledge of software development processes; elementary ability to conduct a critical review and analysis of scholarly research literature
Postgraduate
Requirements engineering (also known in industry as business requirements analysis or requirements management) is a multidisciplinary, human-centred and communication-rich activity of software and systems development. This subject first introduces the foundations of requirements engineering (RE). It then covers the range of advanced techniques, methods and tools that support all the activities that make up the requirements engineering process.

**32570 Enterprise Software Architecture and Middleware**
6cp
Postgraduate
This subject teaches enterprise software architecture in the context of enterprise architecture; its relationship to other architectures and organisational objectives. As far as possible, this subject deals with current problems being faced by organisations trying to align disparate software architectures to better support their organisational objectives. This subject is intended for:

- senior and experienced software architects who must solve software architecture problems
- software architects planning a strategy to update and align legacy systems as well as old and new technology platforms with organisational objectives
- software architects who must identify and evaluate which of many competing projects contribute most to organisational objectives.

**Typical availability**
Spring semester, City campus

**32571 Enterprise Software Testing**
6cp
Postgraduate
This subject teaches how to plan, specify, execute and manage testing of enterprise software systems. Students are introduced to a variety of strategies and situations that may require those strategies to ensure that the complex problem of testing large, complex enterprise software systems is accomplished in the best possible way given the circumstances. Case studies are used to illustrate many of the concepts. Class discussions and assignments exercise many of the skills taught. This subject is intended for the senior and experienced software developer who must solve enterprise software testing problems.

**32572 Reflective Practice in Information Technology**
6cp
Requisites: 32144 Technology Research Preparation
In this subject students acquire understanding, knowledge and skills which develop and enhance their IT professionalism. Students are actively involved in choosing areas of study which are relevant to their own interests and professional future.

In this subject students acquire understanding, knowledge and skills which develop and enhance their IT professionalism. Students are actively involved in choosing areas of study which are relevant to their own interests and professional future.

Links are made between the theory and practice of research, collaboration, reflection and self-directed learning. Students are introduced to a range of approaches used in IT research, with an emphasis on those commonly used in professional contexts. Students engage in activities aimed at enhancing their understandings of key attributes of professional practice including a self-directed learning contract, professional report writing, researching, team presenting, peer assessment and a reflective portfolio.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
32601 Advanced Project Management
6cp; availability: for Graduate Certificate, Graduate Diploma and Masters in IT Management students only. Other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP.
Recommended studies: an understanding of how an IT department operates and familiarity with the management of IT within an organisation, i.e. a minimum of three years experience working in an IT department.
Postgraduate
This subject covers advanced topics in project management with emphasis on contemporary issues in the delivery of IT solutions to the business. It considers human and organisational aspects of project management, the importance of project governance, the changing nature of project management and the role of the project manager in the global business environment.

32603 Systems Quality Management
6cp
Postgraduate
This subject provides students with the practical knowledge and skills necessary to manage the software development process required for developing quality software products. It also provides an essential understanding of software quality management and process improvement techniques and covers current areas of research in the software quality area.

32606 Database
6cp
Recommended studies: it is assumed that students are familiar with basic system analysis concepts and have basic software skills.
Postgraduate
This subject introduces the basic database design and implementation concepts and presents database design techniques including relational design and E-R modelling. It discusses the implementation of relational database and describes database query techniques using the Structured Query Language (SQL).

32702 Contemporary Telecommunications
6cp; availability: Graduate Certificate, Graduate Diploma and Masters in IT Management and Internetworking program students only. Other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval.
Recommended studies: open system interconnection (OSI) layers; basic understanding of networking and telecommunication concepts.
Postgraduate
This subject explores management perspectives on contemporary telecommunications, data communications and networks. Topics covered include: network architecture and standards; new communications technologies; Internetworking; domestic and international communications environments; application-oriented services; network resource architectures; client/server systems; introduction to distributed processing; distributed databases; emerging technologies; and business and telecommunications planning.

32703 Information Technology Strategy
6cp; availability: for Graduate Certificate, Graduate Diploma and Masters in IT Management students only. Other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval from the ITMP.
Recommended studies: prior experience or skills in IT/IS management or business information system development, service delivery and support.
Postgraduate
IT strategy is a key concern for both IT managers and managers of other business functions within enterprises. Through a brief presentation of key issues, case studies and presentations of students’ own experiences, this subject deals with the development, evaluation and impact of information systems in organisations; choices that, together, form part of IT and IS strategy.

32901 Recent Advances in Computer Systems
6cp; Postgraduate
This subject presents high-level material by internationally recognised specialists. Topics are chosen from combinatorial optimisation, computer-supported cooperative work, data mining and visualisation, e-commerce, high-performance and distributed computing applications, computer vision and image processing, interaction design and usability issues for mobile and web-based applications, networking, search and visualisation methodologies for the internet, virtual worlds and communities, web services and semantic web.
Typical availability
This subject is only offered in semesters when the faculty has a visiting academic in residence. Students interested in this subject are advised to consult with the Head of School of Computing and Communications.

32902 Recent Advances in Information Systems
6cp; Postgraduate
This subject discusses key issues in IS research, and showcases a number of recent research contributions. It considers the place of the information systems discipline in industry and research, and major IS research issues and directions. The featured research varies according to the interests of staff, particularly of visiting academics.
Typical availability
This subject is only offered in semesters when the faculty has a visiting academic in residence. Students interested in this subject are advised to consult with the Head of School of Systems, Management and Leadership.

32903 PhD Thesis: Analytics
0cp
For subject description, contact UTS: Information Technology.

32930 Management Research Methods
6cp; availability: Master of Business in IT Management students only. Other students may undertake the subject if they have demonstrated relevant IT management experience and have signed academic approval.
Requisite(s): 48 credit points of completed study in C04161 Master of Business in Information Technology Management
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject prepares students for research in organisations. The advantages and limitations of different research paradigms are examined as well as their applicability in different organisational contexts. Experience is provided in the design of research studies, in the analysis and interpretation of data, and in report presentation. Participants acquire skills that are useful in the conduct of research agendas in organisations and in the critical evaluation of others’ research work.

32931 Technology Research Methods
6cp; availability: honours and postgraduate degree students.
Requisite(s): 32144 Technology Research Preparation
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject familiarises participants with a range of approaches used in information technology research, with an emphasis on approaches commonly used in practical settings. The advantages and limitations of different research approaches are examined, as well as their applicability in different information technology contexts. Experience is provided in the design of research studies, in the analysis and interpretation of data, and in report presentation. Participants acquire skills that are useful in the conduct of research agendas in their own organisations and in the critical evaluation of others’ research work.
Typical availability
Spring semester, City campus.
32932 Management Research Project
6cp; availability: master’s level
Requisite[s]: 32930c Information Technology Management Research Methods
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is the compulsory part of the final master’s project. Participants practise the methods and techniques introduced in the prerequisite research methods subject by undertaking a literature review and producing a research proposal.

32933 Research Project
6cp
Requisite[s]: 32144 Technology Research Preparation
There are also course requisites for this subject. See access conditions.
Postgraduate
Students undertake research that involves a substantial investigation under the supervision of a member of academic staff. Students apply the research methods and approaches, including a literature review and a formal research project. The subject is examined on the quality of a written report, oral presentation and management of the project work.

32934 Research Project
12cp
Requisite[s]: 32144 Technology Research Preparation
There are also course requisites for this subject. See access conditions.
Postgraduate
Students undertake research that involves a substantial investigation under the supervision of a member of academic staff. Students apply the research methods and approaches including a literature review and a formal research project. The subject is examined on the quality of a written report, oral presentation and management of the project work.

32986 PhD Thesis: Information Systems
0cp; availability: PhD students only
Postgraduate
Further information on this subject is available from the UTS: Information Technology research administration officer.

32989 Software Project
12cp
Postgraduate
Further information on this subject is available from the head of the School of Software.

Note(s)
This subject is not currently available to students for enrolment.

32990 IT Contracts and Outsourcing
6cp
Postgraduate
This subject deals with the management, social, legal and financial issues that arise when several parties are involved in the development of an information system. Situations considered are outsourcing, insourcing, development partnerships, support relationships and individual contracting. Students are provided with sufficient resources to plan for and evaluate their position as a client or vendor, and to assess where they need professional advice.

32995 People Management for IT
6cp
Postgraduate
This subject introduces theories of organisations such as businesses, government departments and voluntary associations. It deals with the behaviour of people in organisations, the structure of organisations and the relationship between the two. While dealing with organisations in general, particular reference is made to studies and examples of the mutual influence of information systems and organisations.

32998 .NET Application Development
6cp
Requisite[s]: 32555 Fundamentals of Software Development
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Recommended studies: a good understanding of programming constructs, O-O concepts and programming practices
Postgraduate
This subject introduces C#, Visual Studio and the .NET development environment. The emphasis is on examining the .NET framework and the practicalities of developing software in this setting using the C# language.

Typical availability
Spring semester, City campus

33116 Statistical Design and Analysis
6cp; 5hpw
This subject provides the theory and techniques needed in the design and analysis of experiments in the natural sciences. It covers descriptive statistics, measures of location and dispersion, commonly used discrete and continuous distributions and simple random sampling. Statistical tests, both parametric and distribution free, are presented for a variety of designs, including paired trials, completely randomised design, block designs and designs with interaction terms or covariates. The analysis of linear, multiple and polynomial regression models is also presented, together with appropriate diagnostic techniques to determine the validity of the models.

Typical availability
Autumn semester, City campus

33130 Mathematical Modelling 1
6cp
Recommended studies: 3-unit Mathematics
Autumn semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/watch?v=ZNYttDMzzDE
- Academic video: www.youtube.com/watch?v=gIHzDjJEoox0

33190 Mathematical Modelling for Science
6cp; 6hpw
Recommended studies: two units of HSC Mathematics
Topics covered in this subject include functions and their relationship to scientific experiments; differentiability; differential equations arising from scientific problems; solution by series; radioactive decay and exponential functions; oscillatory motion and trigonometric functions; integration; the logarithm function; inverse functions; inverse trigonometric functions; and solution of differential equations by integration and inverse functions. The computer algebra system Mathematica is used for symbolic, graphical and numerical computations.

Typical availability
Autumn semester, City campus
33230 Mathematical Modelling 2
6cp
Requisite(s): 33130 Mathematical Modelling 1 OR 33190 Mathematical Modelling for Science

This subject consists of two parts: multivariate calculus and an introduction to statistics. The mathematical part develops the mathematical skills required for mathematical modelling of systems involving more than one independent variable. The statistics part is an introduction to descriptive statistics, statistical inference and simple linear regression. Topics include linear algebra, solutions to sets of equations resulting from particular problems, eigenvectors and eigenvalues, partial derivatives, optimisation, multiple integrals and their applications, and probability with a focus on the determination of the reliability of a system of components in various engineering contexts.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus

33290 Statistics and Mathematics for Science
6cp; 6hpw (Spring semester), 9hpw (Summer session in December), 6hpw (Summer session in January)
Requisite(s): 33190 Mathematical Modelling for Science OR 33130 Mathematical Modelling 1

This subject covers studies of simultaneous linear equations and their occurrence in scientific problems; methods for solving these equations using matrices and determinants; eigenvalues and eigenvectors; vectors in two and three dimensions; products of vectors; spatial geometry and coordinate systems; functions of several variables; partial derivatives; optimisation and method of least squares; probability with a focus on the determination of the reliability of a system of components in various engineering contexts; variance, skewness and kurtosis; and probability distributions, conditional probability and bi-variate probability.

The computer algebra system Mathematica is used throughout the subject as an aid to computation, graph plotting and visualisation.

Typical availability
Spring semester, City campus

Note(s)
This subject was formerly called Computing and Mathematics for Science.

33360 Mathematics for Physical Science
6cp; 4hpw
Requisite(s): 33290 Statistics and Mathematics for Science

Topics in this subject include a review of integration techniques; boundary value problems, separation of variables; Fourier series; heat and wave equations; Laplace’s equation; the application of double and triple integrals to scientific problems; vector fields; line and surface integrals, and theorems of Gauss and Stokes.

Typical availability
Autumn semester, City campus

33874 PhD Thesis: Software Engineering
0cp; availability: PhD students only
Postgraduate
Further information on this subject is available from UTS: Information Technology.

33875 PhD Thesis: Computer Systems
0cp; availability: PhD students only
Postgraduate
Further information on this subject is available from UTS: Information Technology.

34776 Thesis (Mathematics)
0cp
The Master of Science in Mathematical Sciences (by research) is examined through presentation of a thesis. Further information is available from the course description (see page 490).

Typical availability
Autumn semester, City campus
Spring semester, City campus

34980 PhD Thesis: Mathematics
0cp
The Doctor of Philosophy is examined through presentation of a thesis. Further information is available from the course description (see page 477).

Typical availability
Autumn semester, City campus
Spring semester, City campus

35010 Foundation Mathematics
6cp; 6hpw

This subject aims to increase a student’s chance of success at university by developing essential mathematical knowledge. It establishes essential knowledge and skills in the areas of algebra, functions, calculus and probability. Students are required to actively participate in their learning by oral presentations, group activities and individual work. Students use the computer algebra system Mathematica in applied problems.

Typical availability
Spring semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/watch?v=NMkxU2nON2U
- Academic video: www.youtube.com/watch?v=VAmPrKsQhvQ

35100 Introduction to Sample Surveys
6cp; 4hpw
Requisite(s): 35151 Introduction to Statistics OR 33116 Statistical Design and Analysis OR 26134 Business Statistics OR 33290 Statistics and Mathematics for Science OR 33230 Mathematical Modelling 2

These requisites may not apply to students in certain courses. See access conditions.

This subject provides students with basic quantitative research skills applicable in a variety of disciplines and work environments. It focuses on the use of the sample survey as a research tool, placing it in context as part of the range of research methods. The subject addresses aspects such as questionnaire design and wording, mode of survey administration and sampling method. Appropriate methods of statistical analysis are covered using the package SPSS, and emphasis is given to the skill of research report writing. Part of the assessment is the designing and carrying out of a small quantitative research project, and the many practical steps involved are placed within a project management framework.

Typical availability
Spring semester, City campus

35101 Introduction to Linear Dynamical Systems
6cp; 5hpw

Problems as diverse as analysing the effects of interest rates or ecological change involve the study of systems that evolve in various contexts. This subject provides an introduction to the modelling of change through difference and differential equations and allows students to see something of the power of mathematics through the interplay between linear algebra and differential equations. Topics include systems of linear equations and their occurrence in everyday problems; methods for solving these equations using matrices and determinants; solution of differential equations by series; methods of integration; eigenvalues, eigenvectors, matrix exponentials and their use in the solution of systems of differential equations. The computer algebra system Mathematica is used for symbolic, graphical and numerical computations.

Typical availability
Autumn semester, City campus

35151 Introduction to Statistics
6cp; 5hpw

Requisite(s): 35100 Introduction to Sample Surveys OR 33116 Statistical Design and Analysis OR 26134 Business Statistics OR 33290 Statistics and Mathematics for Science OR 33230 Mathematical Modelling 2

This subject provides an introduction to statistical methods and develops an understanding of the role of statistics in research. The subject provides students with basic quantitative research skills applicable in a variety of disciplines and work environments. It focuses on the use of the sample survey as a research tool, placing it in context as part of the range of research methods. The subject addresses aspects such as questionnaire design and wording, mode of survey administration and sampling method. Appropriate methods of statistical analysis are covered using the package SPSS, and emphasis is given to the skill of research report writing. Part of the assessment is the designing and carrying out of a small quantitative research project, and the many practical steps involved are placed within a project management framework.

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
35212 Computational Linear Algebra
6cp; 4hpw
Requisite(s): 35101 Introduction to Linear Dynamical Systems OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science OR 33401 Introductory Mathematical Methods
These requisites may not apply to students in certain courses. See access conditions.
In this subject, students develop familiarity with the theory of finite dimensional linear algebra, applications of this theory in areas such as statistical analysis and the solution of differential equations and some of the main computational techniques used in these applications. Topics include systems of linear equations (LU factorisation and iterative methods); vector spaces; inner product spaces; Gram-Schmidt orthogonalisation, QR decomposition; approximation theory: least squares and orthogonal polynomials; the eigenvalue problem; Singular value decomposition and applications.

Typical availability
Autumn semester, City campus

35231 Differential Equations
6cp; 4hpw
Requisite(s): I35102 Introduction to Analysis and Multivariable Calculus OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science OR 33401 Introductory Mathematical Methods) AND 35121 Computational Linear Algebra
These requisites may not apply to students in certain courses. See access conditions.
Differential equations arise in contexts as diverse as the analysis and pricing of financial options, and the design of novel materials for telecommunications. In this subject students develop familiarity with the theory of differential equations, applications of this theory and some of the main computational techniques used in the solution of differential equations. Topics include existence and uniqueness of solutions; method of Frobenius; variation of parameters; the Taylor and Runge-Kutta methods for initial value problems; Fourier series; solving partial differential equations and boundary value problems by separation of variables, transform methods and finite difference methods.

Typical availability
Spring semester, City campus

35232 Advanced Calculus
6cp; 4hpw
Requisite(s): 35102 Introduction to Analysis and Multivariable Calculus OR 33230 Mathematical Modelling 2 OR 33360 Mathematics for Physical Science
These requisites may not apply to students in certain courses. See access conditions.
Transform methods such as the Laplace transform are useful in solving differential equations that arise in many areas of applications including signal analysis, mathematical finance and various queuing models in quantitative management. This subject highlights the areas of advanced calculus needed to justify the use of complex integration to invert the Laplace Transform when solving such problems. Topics include line integrals; Green’s theorem; functions of a complex variable; analytic functions; Cauchy-Riemann equations; complex integrals; Cauchy’s integral theorem; residues and poles; contour integration; and inversion of Laplace Transform.

Typical availability
Autumn semester, City campus

35241 Optimisation in Quantitative Management
6cp; 4hpw
Requisite(s): 35101 Introduction to Linear Dynamical Systems OR 33401 Introductory Mathematical Methods OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science
These requisites may not apply to students in certain courses. See access conditions.
This subject introduces methods and ideas that form an indispensable part of commercial decision support systems in such diverse fields as supply chain management, financial analysis, transportation, production planning and scheduling. It introduces classical techniques for linear models in quantitative management and basic concepts of nonlinear optimisation. Topics covered include the two-phase simplex method, the revised simplex method and the dual simplex method; duality theory; sensitivity analysis; branch-and-bound and cutting plane methods for integer programming; and optimality conditions in nonlinear programming.

Typical availability
Autumn semester, City campus

35252 Mathematical Statistics
6cp; 4hpw
Requisite(s): I35102 Introduction to Analysis and Multivariable Calculus OR 33401 Introductory Mathematical Methods OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science) AND 35353 Regression Analysis)
These requisites may not apply to students in certain courses. See access conditions.
Advanced statistical analysis in areas such as marketing, survey design and financial modelling requires insight into the mathematical foundations of statistics. This subject aims to develop such insight and introduces students to the concepts and terminology required in more advanced applications. Topics include probability, random variables and their probability distributions, limiting distributions, multivariate probability distributions, functions of random variables, estimators and their properties, hypotheses and their tests, and order statistics.

Typical availability
Autumn semester, City campus

35255 Forensic Statistics
6cp; 3hpw
Requisite(s): 35151 Introduction to Statistics OR 33116 Statistical Design and Analysis OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science
These requisites may not apply to students in certain courses. See access conditions.
This subject covers the application of statistical techniques and probability models to forensic cases in the areas of uncertainty, significance and coincidence probabilities, discrimination in discrete and continuous data, relevant population grouping and the analysis of genetic profiles and lineages. The above is illustrated with reference to practical examples and databases of forensic evidence.

Typical availability
Autumn semester, City campus

35322 Advanced Analysis
6cp; 4hpw
Requisite(s): 35232 Advanced Calculus AND 35212 Computational Linear Algebra
These requisites may not apply to students in certain courses. See access conditions.
This subject introduces some of the most important and powerful mathematical tools developed over the last one hundred years. These are essential for the modern theory of probability and stochastic processes that underpin the pricing of derivative securities traded in international financial markets as well as the mathematical foundations of quantum physics. Topics include measure spaces; Lebesgue measure; borel sets and sigma algebra; Lebesgue integrals; product measures; probability as a measure; metric spaces; normed linear spaces; Banach spaces; Hilbert spaces; Lp spaces; applications to problems in probability and Fourier series.

Typical availability
Spring semester, City campus

35335 Mathematical Methods
6cp; 4hpw
Requisite(s): 35231c Differential Equations
This subject introduces students to the advanced techniques that are used to formulate and solve problems in the physical and biological sciences, as well as problems in finance and economics. Topics include: vector integral theorems; the Gamma function and other special functions; Bessel and Legendre equations with applications to boundary value problems; integral transform methods for solving boundary value problem.
Typical availability
Spring semester, City campus (odd years only)

35340 Quantitative Management Practice
6cp; 4hpw
Requisites: 35241 Optimisation in Quantitative Management
These requisites may not apply to students in certain courses. See access conditions.
This subject is concerned with practical aspects of quantitative management, and covers recent developments in various areas of application. Applications considered include personnel scheduling, supply chain management (including logistics and inventory control), production planning and control, transportation problems and financial applications. The subject involves various case studies and study of recent journal publication.

Typical availability
Spring semester, City campus

35342 Nonlinear Methods in Quantitative Management
6cp; 4hpw
Requisites: 35241 Optimisation in Quantitative Management
These requisites may not apply to students in certain courses. See access conditions.
This subject presents a range of ideas and methods commonly used in solving various nonlinear optimisation problems in quantitative management and portfolio management. Methods presented include interior point methods for linear programming; Newton's and conjugate direction methods for unconstrained nonlinear programming; feasible direction methods, and penalty and barrier methods for constrained nonlinear programming; and an introduction to stochastic programming.

Typical availability
Autumn semester, City campus

35344 Network and Combinatorial Optimisation
6cp; 4hpw
Requisites: 35241 Optimisation in Quantitative Management
These requisites may not apply to students in certain courses. See access conditions.
Network and combinatorial optimisation methods are among the main tools used in solving problems that arise in supply chain management, personnel planning and scheduling, production scheduling and choosing the best route for vehicles. This subject has three components: network models and solution methods, complexity theory, and an introduction to modern heuristic techniques for discrete optimisation. The network component includes the minimum cost network flow problem, the maximum flow problem, and the shortest path problem. The subject introduces the concepts of local search and other heuristic techniques such as tabu search, genetic algorithms and simulated annealing.

Typical availability
Spring semester, City campus

Note(s)
This subject was formerly called Network Optimisation.

35353 Regression Analysis
6cp; 4hpw
Requisites: 35151 Introduction to Statistics OR 33116 Statistical Design and Analysis OR 33230 Mathematical Modelling 2 OR 33290 Statistics and Mathematics for Science OR 26134 Business Statistics
These requisites may not apply to students in certain courses. See access conditions.
Regression analysis provides a way to model the relations among a set of quantitative variables. This subject focuses on the most common situation of one response variable and several explanatory variables, a situation encountered in many areas in science, engineering, medicine and business. Models for several explanatory variables are developed and tested, and ways for deciding which of a set of variables give the best model are developed. Other related models such as time series models are briefly considered.

Typical availability
Spring semester, City campus

35355 Quality Control
6cp; 4hpw
Requisites: 35353c Regression Analysis OR 35252 Mathematical Statistics
These requisites may not apply to students in certain courses. See access conditions.
This subject shows how to use statistical methods to improve the quality of manufactured goods and services. The topics covered include control charts, acceptance sampling plans, process capability and reliability measures. Applications to health and health-related quality of life are also discussed.

Typical availability
Spring semester, City campus (even years only)

Note(s)
This subject is replaced by 35393 Seminar Statistics in odd years.

35356 Design and Analysis of Experiments
6cp; 4hpw
Requisites: 35353c Regression Analysis
These requisites may not apply to students in certain courses. See access conditions.
Experiments are an important part of research in all areas including science, medicine, engineering and marketing. Many ideas on how to design a good experiment are independent of the area of application and this subject covers standard principles of good design applicable to all areas. It covers standard designs (completely randomised, randomised complete block, Latin squares and factorial designs) for testing hypotheses about treatment means, discusses how to design experiments to study variances, and discusses assumption checking and transformations. Designs for various special purpose applications such as longitudinal studies, crossover trials and analysis of covariance are also outlined.

Typical availability
Spring semester, City campus

35361 Stochastic Processes
6cp; 4hpw
Requisites: 35252 Mathematical Statistics AND 35363 Stochastic Models
These requisites may not apply to students in certain courses. See access conditions.
This subject has applications across a very wide range of disciplines, from finance and economics, to physics and biology. It introduces the mathematics of random processes which are used to describe and predict the behaviour of complex systems. Topics include: Gaussian-Markov processes; Markov chains, birth-death processes; Compound Poisson processes, Levy processes, stable and Variance-Gamma processes; Time Series; Martingales and their application to ruin probabilities and financial modelling; Black-Scholes formula.

Typical availability
Spring semester, City campus

35363 Stochastic Models
6cp; 4hpw
Requisites: 35151 Introduction to Statistics OR C06097 Graduate Diploma in Mathematics and Statistics for Business and Finance
Stochastic models allow many situations involving uncertainty to be analysed. This subject provides students with the knowledge required to use such models successfully in practice. Students acquire experience in using state-of-the-art commercial software for simulation, Markov decision process methods and various queuing models. Topics covered include Markov chains; Poisson processes, the birth-and-death process, and non-birth-and-death queuing models. The simulation component of the subject includes: pseudorandom number generation and corresponding statistical tests; evaluation of integrals using Monte Carlo simulation; generation of continuous and discrete random variables, including inverse transform technique, convolution method, and acceptance-rejection technique.
Typical availability
Autumn semester, City campus

35364 Statistics for Quantitative Finance
6cp
This subject provides a foundation in probability and statistics, and introduces the basic concepts of stochastic processes and time series. Topics include random variables, expectations, law of large numbers, central limit theorem, estimation of parameters, testing hypothesis, linear regression, Gaussian and Markov stochastic processes, and basic time series analysis.

Typical availability
Autumn semester, City campus

35365 Stochastic Calculus in Finance
6cp
Requisites(s): 35364 Statistics for Quantitative Finance
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The aim of this subject is to present and deepen the various mathematical concepts, techniques and intuition necessary for modern financial modelling, derivative pricing, portfolio optimisation and risk management. It provides the foundations for a sufficiently rigorous mathematical treatment of these topics. It also enables students to confidently apply the theory of stochastic processes and stochastic calculus.

Typical availability
Autumn semester, City campus

35366 Numerical Methods of Finance
6cp
Requisites(s): 25839 Mathematics of Finance
These requisites may not apply to students in certain courses. See access conditions.

This subject presents various numerical methods used in quantitative finance. It provides a rigorous understanding of advanced numerical, statistical and filtering methods. Emphasis is on simulation methods for solving stochastic differential equations and finite difference methods for partial differential equations.

Typical availability
Autumn semester, City campus

Note(s)
1. This subject was previously owned by the Faculty of Business.

35383 High Performance Computing
6cp, 4hpw
Requisites(s): 313267 Programming Fundamentals OR 48023 Programming Fundamentals AND 35212 Computational Linear Algebra

Many quantitative problems, such as the pricing of exotic financial options or modelling large-scale ecological systems, cannot be solved analytically. Instead, computational solutions must be found, sometimes by methods that require high-performance parallel computers or grid computing techniques. This subject introduces students to the structure and characteristics of the major types of parallel computer systems and to methods for the design and implementation of parallel numerical codes in a modern scientific programming language. Topics include: the Fortran 95 language including arrays and array operations; procedures and interface blocks, modules, recursive procedures, pointers and dynamic data structures; practicalities of programming in a batch environment; debugging; checkpointing; the MPI library and MIMD programming in a distributed memory environment; OpenMP and shared memory MIMD programming with thread.

Typical availability
Autumn semester, City campus

35391 Seminar (Mathematics)
6cp, 4hpw
Requisites(s): 35231c Differential Equations
The subject involves group studies in mathematics. The topics vary from year to year and are chosen in accordance with the interests of students and staff, and the availability of staff.

Typical availability
Spring semester, City campus (even years only)

35393 Seminar (Statistics)
6cp, 4hpw
Requisites(s): 35353 Regression Analysis
These requisites may not apply to students in certain courses. See access conditions.

The subject involves group studies in statistics. The topics vary from year to year and are chosen in accordance with the interests of students and staff, and the availability of staff.

Typical availability
Spring semester, City campus (odd years only)

35457 Multivariate Statistics
6cp, 3hpw
This subject covers multivariate normal distribution, definition, moments, characteristic function, estimation of mean and covariance matrices, Wishart distribution, Hotelling's T2, multivariate linear regression, principal components, factor analysis and cluster analysis.

Typical availability
Autumn semester, City campus

35466 Advanced Stochastic Processes
6cp, 3hpw
This subject aims to introduce honours students to the mathematical theory and some financial applications of Brownian motion and related processes. It covers the following topics: formal definition of probability space and stochastic processes; Martingales; Riemann-Stieltjes integration; Brownian motion and related processes; stochastic calculus and stochastic differential equations; and financial applications.

Typical availability
Autumn semester, City campus

35472 Honours Seminar 1
6cp
This is one of four seminar subjects that allow students to engage in intensive study of an advanced topic in the mathematical sciences. The choice of topics is based on the student's interests and staff availability. Recent topic areas include advanced design and analysis of experiments, advanced mathematical methods, boundary value problems, discrete optimisation, electromagnetic wave theory, finite difference methods, log-linear and nonlinear statistical models, nonlinear dynamical systems, optimal control, scheduling theory, and time series analysis.

Some honours subjects offered by the Australian Mathematical Science Institute via Access Grid Room are also available.

35473 Honours Seminar 2
6cp
This is one of four seminar subjects that allow students to engage in intensive study of an advanced topic in the mathematical sciences. The choice of topics is based on the student's interests and staff availability. Recent topic areas include advanced design and analysis of experiments, advanced mathematical methods, boundary value problems, discrete optimisation, electromagnetic wave theory, finite difference methods, log-linear and nonlinear statistical models, nonlinear dynamical systems, optimal control, scheduling theory, and time series analysis.

Some honours subjects offered by the Australian Mathematical Science Institute via Access Grid Room are also available.
35474 Honours Seminar 3
6cp
This is one of four seminar subjects that allow students to engage in intensive study of an advanced topic in the mathematical sciences. The choice of topics is based on the student’s interests and staff availability. Recent topics include advanced design and analysis of experiments, advanced mathematical methods, boundary value problems, discrete optimisation, electromagnetic wave theory, finite difference methods, log-linear and nonlinear statistical models, nonlinear dynamical systems, optimal control, scheduling theory, and time series analysis. Some honours subjects offered by the Australian Mathematical Science Institute via Access Grid Room are also available.

35475 Honours Seminar 4
6cp
This is one of four seminar subjects that allow students to engage in intensive study of an advanced topic in the mathematical sciences. The choice of topics is based on the student’s interests and staff availability. Recent topics include advanced design and analysis of experiments, advanced mathematical methods, boundary value problems, discrete optimisation, electromagnetic wave theory, finite difference methods, log-linear and nonlinear statistical models, nonlinear dynamical systems, optimal control, scheduling theory, and time series analysis. Some honours subjects offered by the Australian Mathematical Science Institute via Access Grid Room are also available.

35476 Thesis: Mathematics and Finance (Hons) A
6cp; independent research under supervision
The honours thesis subjects require students to produce a thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner. The project on which the thesis is based is conducted over two semesters in two consecutive subjects, one of which is the first. The subject 35476 Thesis: Mathematics and Finance (Hons) A is the second subject and the result in this subject is determined on completion of that subject.

35477 Thesis: Mathematics and Finance (Hons) B
6cp; independent research under supervision
This subject is a continuation of 35476 Thesis: Mathematics and Finance (Hons) A. The honours thesis subjects require students to produce a thesis based on an original problem of a theoretical or applied nature. The thesis is expected to demonstrate the student’s competency to conceptualise, conduct and present research in a scholarly and independent manner.

35493 Thesis [Mathematics] Honours Part A
12cp
The thesis is an individually supervised subject with no formally scheduled classes. Regular meetings are arranged between the supervisor and student. Students are required to give oral presentations and/or seminars during the course of the subject. Students perform an independent investigation of an area of the mathematical sciences chosen in consultation with a supervisor who is appointed by the head of department. The subject is preparation for 35494 Thesis: Mathematics (Honours) Part B and results are only allocated on completion of that subject.

12cp
The thesis is an individually supervised subject with no formally scheduled classes. Regular meetings are arranged between the supervisor and student. Students are required to give oral presentations and/or seminars during the course of the subject. Students perform an independent investigation of an area of the mathematical sciences chosen in consultation with a supervisor who is appointed by the head of department.

40104 Analytics Capstone Project
6cp
This is one of four subjects which allow students to engage in intensive study of an advanced topic in the mathematical sciences. The choice of topics is based on the area of specialisation of the lecturer/presenter/facilitator. Recent topic areas include: advanced design and analysis of experiments; advanced mathematical methods; boundary value problems; discrete optimisation; electromagnetic wave theory; finite difference methods; log-linear and nonlinear statistical models; nonlinear dynamical systems; optimal control; scheduling theory; and time series analysis. Further information on this subject is available from UTS: Engineering and Information Technology.
41005 Cloud-based Enterprise Application Development
6cp
Requisite(s): 41001 Cloud Computing and Software as a Service
Further information on this subject is available from UTS: Engineering and Information Technology.

41101 Fundamentals of Biomedical Engineering
6cp
Requisite(s): 48541 Signal Theory AND 48520 Electronics and Circuits AND 91400 Human Anatomy and Physiology
The objectives of this subject are to introduce students to the field of biomedical engineering and familiarise them with the many areas and applications of this multidisciplinary field. The subject covers basics of biomedical signals and systems, biomedical images, biomedical instrumentation, biomechanotronics and bioinformatics. Topics include description of the different biomedical and physiological signals, sensors, data acquisition process, systems analysis, processing medical 2D images, medical motion models, biomedical instrumentation and molecular biology databases.

41105 Biomedical Signal and Image Processing
6cp
Requisite(s): 31256 Image Processing and Pattern Recognition AND 41101 Fundamentals of Biomedical Engineering
This subject covers the concept of signal and image processing related to biomedical signals and images along with methods of acquisition and classification. Basics of electro-cardiography, electro-encephalography, electro-myography and electro-retinography will be discussed along with discrete signal processing algorithms for analysis and monitoring. Measurement of amplitude and time intervals of EEG signals, QRS detection (different methods), ST segment analysis, removal of baseline and power line interferences, arrhythmia analysis etc will be included, along with algorithms for data reductions. The linear prediction and adaptive signal processing methods for analysis, detection and estimation of EEG and other neurological signals, sleep EEG, study of pattern of brain waves etc will be included. The EEG signal analysis using spectral estimation, the maximum entropy method and AR method, moving average method, the ARMA methods and moving likelihood method will also be covered. Wavelet signal processing methods will be introduced. Image processing methods for image analysis, segmentation, classification and reconstruction will be discussed. All the concepts will be introduced using MATLAB simulations.

42001 Bioinformatics
6cp
Requisite(s): 31005 Data Mining Algorithms AND 41101 Fundamentals of Biomedical Engineering AND (120 credit points of completed study C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study C10065 Bachelor of Engineering Diploma in Engineering Practice)
These requisites may not apply to students in certain courses. See access conditions.

This subject covers four main topics related to genomic sequence data, gene expression profiling, structural bioinformatics and network biology. Students learn to download freely-available genomic sequence data such as DNA sequences, RNA sequences, and protein sequences and learn to conduct sequence data analysis for motif discovery by using BLAST-based methods and algorithms. Students learn to understand gene expression principles and databases and learn to conduct data analysis for disease diagnosis and prognosis by using data mining and machine learning algorithms. Students are also taught to understand molecular structures of proteins and protein complexes and make use of data for binding site detection. Further, students learn to use graph models to detect functional modules from various biological networks such as protein-protein interactions, residue-residue networks, and genotype-phenotype associations.

42900 Sustainability and Information Systems
6cp; 3hpw (1.5hr lecture and 1.5hr tutorial)
Elective
Postgraduate
This subject explores the arising and complex challenges effecting organisational sustainability in the 21st century. Sustainability here is viewed from multidimensional perspectives to encompass environmental, technological, social, and economic sustainability of contemporary organisations and their operations. To achieve sustainability objectives, collaboration among a wide range of stakeholders, often mediated through the use of information technologies and collaborative media, is essential. This however poses significant and often existential challenges to many organisations attempting to apply traditional, structured, and short-term approaches in their operations, as well as considerable opportunities for innovative, collaborative, technology savvy, and long-term focused organisations.

Consequently, the subject invites students to proactively and innovatively reflect on these issues and their effect on organisational leadership and management. In such reflection, students are encouraged to consider various real and hypothetical case-based scenarios, where they identify and evaluate challenges to sustainability, and recommend informed, innovative, collaborative, and rigorously supported arguments and policy initiatives.

Typical availability
Spring semester, City campus

42901 Object-Relational Databases
6cp; 3hpw
Requisite(s): 31271 Database Fundamentals
Recommended studies: practical experience with database design and implementation
Elective
Postgraduate
This subject introduces students to advanced post-relational database topics including cloud databases, management of XML data and management of complex data objects. Following a brief review of relational databases and object-oriented principles, the SQL: 2003 object-relational model and language features are described in detail. The theoretical discussion of these topics is supported with practical hands-on exercises using the Oracle11g database management system.

Typical availability
Spring semester, City campus

42902 Interior Routing and High Availability
6cp; block, attendance at laboratory sessions is compulsory
Requisite(s): I49202 Communication Protocols AND I120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

Students examine the intricacies of standards-based routing protocols, such as open shortest path first (OSPF) and intermediate-system-to-intermediate system (IS-IS). Students then analyse and compare these routing protocols, highlighting their valuable insights into the design decisions necessary for the successful implementation of these protocols in large-scale, service-oriented networking infrastructures for mobile, managed communication and triple play networks.
This subject is based on the Alcatel-Lucent course 3FL30633AAAAZZZZ which forms part of the service router certification program. Additional material has been added by UTS for further clarification and deepening of understanding.

Typical availability
May session, City campus

42903 Multi Protocol Label Switching
6cp; block
Requisite(s): I49202 Communication Protocols AND I120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject teaches students about multiprotocol label switching (MFLS) concepts, terminology, signalling protocols, design considerations such as resiliency, and the implementation, monitoring
and basic troubleshooting of an MPLS network. On successful completion, students are able to demonstrate a good understanding of MPLS and the establishment of label switched paths (LSPs) using either label distribution protocol (LDP) or resource reservation protocol (RSVP) and resource reservation protocol with traffic engineering (RSVP-TE).

This subject is based on the Alcatel-Lucent course 3FL3063SAAAAZZZZA which forms part of the service router certification program. Additional material has been added by UTS for further clarification and deepening of understanding.

**Typical availability**
October session, City campus

### 42904 Cloud Computing and Software as a Service

6cp  
Postgraduate

This subject introduces students to cloud computing fundamentals, case studies and their applications for the development of software as a service in the cloud. Following a brief introduction to cloud computing, the cloud architecture, infrastructure as a service, platform as a service, software as a service (SaaS), virtualisation and multi-tenancy features are explained. The theoretical discussion of these topics is supplemented with practical hands-on exercises for SaaS development in the cloud.

### 42905 Marketing Technology

6cp; 3hpw; availability: offered only to students enrolled in Graduate Certificate in Information Technology Management (C11138), Graduate Certificate in Strategic IT Leadership (C11190), Graduate Diploma in Information Technology Management (C06060) and Master of Business in Information Technology Management (C04161)  
Elective  
Postgraduate

This subject gives non-marketers, especially managers with a technical background, a new way of thinking about customers and their organisation. In this respect, it treats marketing as the process of accessing new customers and understanding their needs, thereby creating value for the organisation. This subject covers the fundamentals of marketing with special emphasis upon the marketing of technology and the way technology is changing the practice of marketing. The subject also challenges students to critically analyse the field of marketing’s contribution to environmental sustainability and social change. After introducing essential marketing concepts, the subject relates these to technology industries, focusing on the way innovation in technology is changing marketing practice. Throughout the subject, participants are challenged to consider the wider socioeconomic and environmental impacts and challenges facing contemporary marketing practices.

**Typical availability**
Spring semester, City campus

### 48001 Project BEngSc

6cp; weekly  
Requisite(s): [96 credit points of completed study in C10066 Bachelor of Engineering Science OR 96 credit points of completed study in C10077 Bachelor of Engineering Science in Engineering Innovation] AND [48250c Engineering Economics and Finance OR [22107c Accounting for Business Decisions A AND 25311c Financial Management for New Enterprises]]

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This project subject provides students with the opportunity to consolidate their prior learning in an open-ended, multidisciplinary engineering project. Students work as part of a team that integrates most aspects of a full engineering design cycle, and learn about frameworks for analysing socio-technical systems, management techniques and technology assessment concepts. They are expected to develop client requirements through consultative processes, and to develop engineering specifications appropriate to the various stages in the project cycle. They assess alternative solutions and develop preferred options.

Students gain experience in defining and articulating needs and evaluating engineering responses. They produce a comprehensive report documenting the engineering process and project outcomes, and are also required to present aspects of the project through a variety of communication media, including online and face-to-face modes.

### Typical availability

Autumn semester, City campus

#### 48006 Capstone Project

6cp  
Requisite(s): [48260 Engineering Project Management OR 16912 Site Management] AND [48142 Engineering Practice Review 2 OR 144 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 144 credit points of completed study in C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 144 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 144 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 144 credit points of completed study in C10067 Bachelor of Engineering OR 144 credit points of completed study in C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice OR 144 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Science OR 144 credit points of completed study in C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 144 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Medical Science OR 144 credit points of completed study in C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 144 credit points of completed study in C10077 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 144 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 144 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice OR 144 credit points of completed study in C10080 Bachelor of Engineering in Civil Engineering OR 144 credit points of completed study in C10085 Bachelor of Engineering in Computer Systems Engineering OR 144 credit points of completed study in C10086 Bachelor of Engineering in Telecommunications Engineering OR 144 credit points of completed study in C10087 Bachelor of Engineering in Mechanical Engineering OR 144 credit points of completed study in C10088 Bachelor of Engineering in Manufacturing Engineering OR 144 credit points of completed study in C10091 Bachelor of Engineering in Manufacturing Systems Engineering]

**Undergraduate**

Objectives of the Capstone Project are: to bring together and integrate knowledge and skills gained in the course as a whole, including engineering principles, planning and design, ethics, management, and communication, and to apply these to an initially unstructured problem formulated by each student in consultation with an adviser; to reinforce and develop competencies that have not been sufficiently emphasised in the student’s choice of subjects or engineering practice to date; to define a substantial engineering study or design task, place it in context, and carry it to completion within a specified time and to a professional standard; to complete a comprehensive written and bound report that places the project in context, defines its objectives, and describes the work done and the resulting conclusions or recommendations; to provide a bridge to the student’s professional future, and the opportunity to demonstrate professional competencies and capabilities; and to provide scope to demonstrate initiative and creativity, and take pride in achievement.

Each student is required to undertake a substantial engineering project, normally during their final year of study, and to prepare a formal report describing the work performed and the resulting conclusions and recommendations. The work is planned and carried out under the supervision of a member of academic staff. Both the work and the report must meet professional engineering standards. The project may be in any area of engineering. Students may choose a topic relating to their experience in engineering practice, or an area of interest which they wish to study in detail. Typical projects might take any of the following forms: literature review - a study of the available literature and a state-of-the-art appraisal of an area of engineering;
design - the complete design of a substantial engineering artefact or system; experimental investigation - a comprehensive laboratory investigation or testing program; research and development - original research of a fundamental or applied nature, or development of a new application of a particular technology; computer-based analysis - development or use of computer software to study the behaviour of an engineering solution; project management - planning and management of a substantial engineering project, normally in a workplace, business or community context; combining technical and management skills; impact analysis, planning, system design - study and analysis of an engineering solution in its economic, social and environmental context, integrating the engineering dimension with cross-disciplinary interfaces, and optimising overall system design, normally interactive with other professions.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

48012 Capstone Project
6cp
Requisite(s): 48142 Engineering Practice Review 2 OR 144 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 144 credit points of completed study in C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 144 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 144 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 144 credit points of completed study in C10067 Bachelor of Engineering Bachelor of Science in Engineering Practice OR 144 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 144 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Science in Engineering Practice OR 144 credit points of completed study in C10076 Bachelor of Engineering Bachelor of Medicine in Science Diploma in Engineering Practice OR 144 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 144 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice OR 144 credit points of completed study in C10080 Bachelor of Engineering in Civil Engineering OR 144 credit points of completed study in C10084 Bachelor of Engineering in Electrical Engineering OR 144 credit points of completed study in C10085 Bachelor of Engineering in Computer Systems Engineering OR 144 credit points of completed study in C10086 Bachelor of Engineering in Telecommunications Engineering OR 144 credit points of completed study in C10087 Bachelor of Engineering in Mechanical Engineering OR 144 credit points of completed study in C10088 Bachelor of Engineering in Manufacturing Engineering OR 144 credit points of completed study in C10091 Bachelor of Engineering in Manufacturing Systems Engineering OR 144 credit points of completed study in C10097 Bachelor of Engineering in Medical Science Diploma in Engineering Practice

Undergraduate

Refer to the subject description for 48006 Capstone Project (6cp) and 48012 Capstone Project (12cp). This subject is intended for students who wish to undertake a 12cp Capstone Project over two semesters. Such students enrol in this subject (48012) in the first semester and 48026 Capstone Project - Part B in the second semester.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48023 Programming Fundamentals
6cp
Undergraduate

This subject provides basic skills in Java programming and software design, with no assumed knowledge of programming. It covers the topics of object-oriented (OO) programming concepts, data flow, control flow, arrays, and the basics of sorting and searching algorithms. The subject teaches and illustrates a design process using a set of design notations and design rules, and shows how to develop a correct, readable and reusable solution from a problem specification.

Typical availability
Autumn semester, City campus
Spring semester, City campus
48024 Applications Programming
6cp
Requisite[s]: 48023 Programming Fundamentals OR 31267 Programming Fundamentals OR 31465 Object-oriented Programming
Recommended studies: basic skills in Java programming
Undergraduate
This subject teaches students how to design, develop and evaluate software systems to meet predefined quality characteristics of functionality (suitability) and usability (understandability, learnability, operability, compliance). Software solutions are implemented using Java. Concepts, theories and technologies underlying the methods and techniques are introduced and explained as required. Students apply all that they have learned to develop and implement the architecture of a business system.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48026 Capstone Project Part B
6cp
Requisite[s]: 48016 Capstone Project Part A
Undergraduate
Refer to the subject description for 48006 Capstone Project. This subject is intended for students who wish to undertake a 12-credit-point Capstone Project over two semesters. Students enrol in 48016 Capstone Project Part A in the first semester and this subject in the second.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48027 Language and Contexts of Australian Engineering
6cp; availability: the Faculty may require students who are identified as needing additional English language preparation to undertake a preparatory English language course. Enrolment is by permission of the Subject Coordinator or nominee
This subject focuses on providing an overview and appreciation of the range of topics relevant to engineering study, and academic strategies for interpreting, planning, organising, researching and presenting written and oral assignments. The subject provides an introduction to the cultural and linguistic factors that affect the academic study of engineering in Australia. It aims to facilitate students’ effective participation in university life and provide a foundation for further academic studies. It addresses the cultural and social knowledge and the literacy and oral skills required in critical reading, report writing, tutorial participation, listening, note taking and other aspects relevant to student participation in the study of engineering at UTS.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48032 Wireless Sensor Networks: Technology and Applications
6cp
Requisite[s]: I31267 Programming Fundamentals OR 31465 Object-oriented Programming OR 31508 Programming Fundamentals OR 31488 Programming Foundations OR 48023 Programming Fundamentals OR I31270 Networking Essentials OR 31467 Networking 1 OR 31516 Networking Fundamentals OR 31486 Data Communications OR 48720 Network Fundamentals OR 48740 Communications Networks
Wireless sensor networks are distributed systems, in which autonomous devices, sometimes called Motes, collect environmental data (such as location, speed, temperature, humidity and sound level) or, more recently, medical data (such as heart rate, blood oxygen level and pulse rate). The data is collected across the network, aggregated and fed into business applications. Sensor networks are an enabler for very different applications, including environmental monitoring, agricultural monitoring, medical monitoring, habitat monitoring and military surveillance.

48071 Engineering Analytical Modelling
6cp
Undergraduate
This subject builds on students’ knowledge of mathematics from the TAFE and polytechnic Diploma. It assumes a knowledge of introductory calculus. It provides students with an understanding and use of numerical methods in the engineering environment. It lays the foundations to enable students to confidently use numerical techniques in subsequent subjects and the work environment.
Topics include: applications of sequences and series; linear algebra; matrices, vectors and determinants; applications of matrices and vectors; vector algebra in 2-space and 3-space; introduction to vector calculus and applications; curve fitting using least squares methods for polynomials, log-linear and log-log relationships; engineering applications of differential equations (first and second order); numerical methods in linear algebra and in the solution of differential equations; graph theory and optimisation; use of the Simplex method; introduction to combinatorial optimisation; probability and statistics including probability theory, permutations and combinations, probability distributions, binomial, Poisson and normal distributions; sampling, confidence intervals and hypothesis testing.

Typical availability
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong
Autumn semester, Singapore
Spring semester, Singapore
Summer session, Singapore
Winter session, Singapore

48080 Introduction to Innovation
6cp
This subject aims to provide students with an overview of innovation in engineering and technology. Students develop an awareness of the processes of innovation and commercialisation and an understanding of technology life cycles and technological change. Technological, management skills are developed through a focus on the scientific concepts, development processes as well as commercial applications for selected technologies. Case studies are used to investigate particular applications, their underlying scientific basis, and the relevant aspects of the commercialisation process from a science and engineering perspective. External speakers with direct experience in the innovation process contribute to this subject.

Typical availability
Spring semester, City campus

48081 Innovation Processes
6cp
Requisite[s]: 48080 Introduction to Innovation OR 48240 Design Fundamentals AND 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
Innovation, or the successful commercialisation of an idea, is an important outcome of many engineering processes. This subject is the final innovation specific subject for the Innovation Engineering major. It brings together the main innovation themes and provides experience in improving the engineering innovation processes. Engineering and technology management methods and tools are introduced and applied during this subject. Students design and complete an individualised innovation project or research task during the semester.

Typical availability
Spring semester, City campus
48100 Professional Practice (BE)
0cp; availability: Bachelor of Engineering Bachelor of Arts in International Studies, Bachelor of Engineering Bachelor of Business, Bachelor of Engineering, Bachelor of Engineering Bachelor of Science, Bachelor of Engineering Bachelor of Medical Science, Bachelor of Engineering Bachelor of Biotechnology
Requisite(s): 126 credit points of completed study in C10067 Bachelor of Engineering OR 126 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 126 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 126 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Science OR 126 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Medical Science OR 126 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology
Engineers Australia requires that all students graduating from accredited professional engineering courses have a minimum of 12 weeks (or equivalent) of professional practice. This subject assesses students’ claims to meeting this requirement. It involves the writing of a report demonstrating learning outcomes and reflecting on experience as well as a seminar presentation to share experiences with other students and learn from them. The assessment tasks and the subject are assessed as pass/fail.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48110 Engineering Experience 1
0cp; availability: This subject is only available to students admitted in professional engineering courses which include the Diploma in Engineering Practice
Requisite(s): 48121 Engineering Practice Preview 1
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Engineering educators, as well as engineering employers, have long recognised the value of integrating practical experience with academic studies. This is a 0-credit-point subject that supports students while they are working in industry or the community for the purpose of gaining experience in the practice of engineering. It provides students with the opportunity to discover engineering workplace culture and to develop their basic technical skills. It is expected that students gain this level of experience early in their academic program. One semester prior to undertaking the experience students must enrol in 48121 Engineering Practice Preview.

Each student’s experience is unique. Employer or host organisations are not expected to provide formal training although some may choose to do so. Instead students are required to become active learners and seek opportunities to fulfilling the objectives of this experience module. Students are assisted in this process through engineering core and fields of practice subjects and specifically through the Engineering Practice Review subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48120 Review of Engineering Practice 1
5cp Engineering Practice Undergraduate

This subject has been introduced for the purpose of assisting students who commenced before 1998 in the Bachelor of Engineering course and wish to transfer to the BE DipEngPrc. It is a substitute for the first internships and the associated preview and review subjects. Students who have completed 44 weeks of industrial experience under the old course can apply for an exemption in this subject as a means of simplifying the transfer to the BE DipEngPrc. This subject is also relevant for new students starting the engineering degree at UTS with significant work experience. These students may apply for an exemption. By completing this subject, students accelerate their progress in the DipEngPrc.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48121 Engineering Practice Preview 1
3cp
Requisite(s): 48100 Professional Practice (BE)

This subject helps initiate students to the engineering workplace by guiding them through the employment process, developing the communication and documentation skills appropriate to engineering practice, showing them how to learn through experience, exploring the nature and culture of the workplace, introducing ethical and social issues, and helping them to plan for their own personal and professional development. Students negotiate their learning options from a range of compulsory and optional topics including ethics and social responsibility, industrial relations, occupational health and safety, and the culture of engineering. Some tasks include personal rsum, job application letters, employment interviewing, learning style assessment, ethics case study, and industrial relations case study. Assessment is essentially formative to assist students in achieving an acceptable level. However, students are not able to undertake the engineering experience first internship until they have passed all the compulsory components of this subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48122 Engineering Practice Review 1
3cp
Requisite(s): 48110 Engineering Experience 1

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Engineering Practice Undergraduate

Engineering Practice Review 1 guides students through a process of thoughtful reflection and review of their engineering practice. Workplace issues are examined and students are assisted in developing appropriate professional strategies. Students identify the technical and professional advancement that has occurred as a consequence of their experience, and integrate these new ideas with their existing knowledge frameworks. This learning is documented for peer and professional review.

Since each student’s work experience is unique, all students benefit from sharing and discussing their experiences. However, this subject assists all students to receive a firm grounding in the fundamentals of engineering workplace practice, including the nature and culture of the engineering workplace, the employment process, ethics and social responsibility, communication and documentation, the application of engineering method, occupational health and safety, industrial relations, and personal and professional development.
48130 Engineering Experience 2
6cp; availability: This subject is only available to students admitted in professional engineering courses which include the Diploma in Engineering Practice
Requisites: 48141 Engineering Practice Preview 2 AND 129 credit points of completed study
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This is a 0-credit-point subject that supports students while they are working in industry or the community for the purpose of gaining experience in the practice of engineering. It expects that students are advanced in their academic studies and working closely with engineering professionals in order to extend their understanding of the practice of professional engineering and to apply, test and further develop their technical skills. One semester prior to undertaking the experience, students must enrol in 48141 Engineering Practice Preview 2.

Each student’s experience is unique. Employer or host organisations are not expected to provide formal training although some may choose to do so. Instead students are required to become active learners and seek opportunities to fulfill the objectives of this experience module. Students are assisted in this process through engineering core and fields of practice subjects and specifically through the associated Engineering Practice Review subject.

48140 Review of Engineering Practice 2
6cp Engineering Practice Undergraduate
This is a transition subject that has been introduced for the purpose of assisting students who commenced before 1998 in the BE course and who have transferred to the BE DipEngPrac. It is used with the permission of the program head of the Engineering Practice Program where the normal process of enrolling in the second internship and associated preview and review subjects would unreasonably delay graduation.

48141 Engineering Practice Preview 2
3cp Requisites: 48122 Engineering Practice Review 1 OR 48120 Review of Engineering Practice 1
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate
This subject helps students to develop as professional engineers by refining employment-related processes, developing the communication and documentation skills appropriate to professional engineering practice, exploring issues of organisational management and commercial practice, examining ethical and social issues, applying theory in practice and developing strategies for continuing professional development. A key competency in this subject is the ability to meet specifications to a deadline.

Students are offered learning options from a range of compulsory and optional topics including the nature and culture of professional engineering, the professional employment process, engineering in a global social context, organisational behaviour, management and commercial practice, industrial relations and human resource issues, communication and documentation, leadership and teamwork, occupational health and safety, ethics and social responsibility, experiential learning and knowledge creation, and personal and professional development. In addition they consider the development of professional competencies as required by the Institution of Engineers, Australia.
48230 Engineering Communication

6cp; 3hpw (tutorial); 1hr lecture in weeks 1, 2 and 14
Core
Undergraduate

Engineering Communication aims to develop communication skills in an engineering workplace setting. Some of these include understanding basic principles and theories of human communication; researching within the various discipline areas that inform the study of communication; write competently in a number of different genres; performing competently in a variety of oral communication situations; understanding basic principles and practices of graphic communication; expressing engineering concepts through graphical communication; 'conversing' mathematically; leading and participating in group processes; and appreciating the central role of communication in engineering practice.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Hong Kong
- Spring semester, Hong Kong
- Summer session, Hong Kong
- Winter session, Hong Kong
- Autumn semester, Singapore
- Spring semester, Singapore
- Summer session, Singapore
- Winter session, Singapore

48240 Design Fundamentals

6cp
Requisite(s): 33130 Mathematical Modelling 1 AND 48230 Engineering Communication

Design is explored as a fundamental engineering activity, applying the scientific principles learned in field of practice subjects to the solution of contextual problems. Students examine models of the design process and critique designed products, processes and systems. They define and formulate problems using creative and analytical processes. The responsibilities of engineers for assessing and managing different types of risk are explored, and safe design, ethics and intellectual property are also discussed.

Topics addressed include:
- design context and requirements - approaches to design, problem framing and creativity; requirements analysis involving legal, regulatory, technical and business requirements; designing for sustainability, safety, innovation and intellectual property outcomes; risk management and design communication, documentation and review.
- design analysis - concepts of risks and uncertainties in engineering; use of engineering and system modelling approaches and methods and fundamental statistical techniques used in engineering modelling.
- design synthesis - engineering decision-making in the presence of risks and uncertainties and optimisation.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus

48250 Engineering Economics and Finance

6cp
Requisite(s): 48230 Engineering Communication AND 48240 Design Fundamentals
Core
Undergraduate

The objectives of this subject are to provide engineering students with an understanding of and the capacity to deal with workplace concerns and the business side of engineering, and to provide them with an awareness of the language of accounting and engineering economy. The themes addressed in this subjects include:
- The economic context: the creation of wealth; a description of the sectors in the economy, the circulation of money and goods, the system of national accounts, current account deficit, the budget, economics of international trade.
- Engineering economy: discounted cash flow analysis, cash flow diagrams, interest, time value of money, net present value calculations, rates of return, project costing methods (cost estimating), etc.
- Cost-benefit analysis: cost-benefit analyses taking intangibles into account; types of intangibles and costing methods, and shadow pricing.
- Financial accounting: balance sheets and profit and loss statements, cash flow statements, and performance ratios.
- Management accounting: cost categories, break even analysis, contribution margin calculations, budgets.
- Engineering and sustainability: the relationships between engineering practice, economics and sustainability.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Hong Kong
- Spring semester, Hong Kong
- Summer session, Hong Kong
- Winter session, Hong Kong
- Autumn semester, Singapore
- Spring semester, Singapore
- Summer session, Singapore
- Winter session, Singapore

48260 Engineering Project Management

6cp
Requisite(s): [((48122 Engineering Practice Review 1 OR 48120 Review of Engineering Practice 1) OR (96 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 96 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 96 credit points of completed study in C10066 Bachelor of Engineering Science OR 96 credit points of completed study in C10067 Bachelor of Engineering OR 96 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Science OR 96 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Medical Science OR 96 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 96 credit points of completed study in C10080 Bachelor of Engineering in Civil Engineering OR 96 credit points of completed study in C10084 Bachelor of Engineering in Electrical Engineering OR 96 credit points of completed study in C10085 Bachelor of Engineering in Computer Systems Engineering OR 96 credit points of completed study in C10086 Bachelor of Engineering in Telecommunications Engineering OR 96 credit points of completed study in C10087 Bachelor of Engineering in Mechanical Engineering OR 96 credit points of completed study in C10088 Bachelor of Engineering in Manufacturing Engineering OR 96 credit points of completed study in C10091 Bachelor of Engineering in Manufacturing Systems Engineering)] AND 48240 Design Fundamentals

This subject adopts a holistic view of project management, considering issues throughout a project lifecycle. It considers the legal, contractual and managerial responsibilities of engineering managers and organisations, from the definition phase of a project until the project reaches its conclusion. The perspective of stakeholders, particularly the project manager, are considered. The emphasis is interdisciplinary, of relevance to all fields of engineering.

Topics addressed include: modern project management practices; organisational strategy, structures and culture; project delivery; definition, timing, costing, planning; managing risk and scheduling resources; project leadership, teams and interorganisational relationships; project management contract law; conflict resolution, progress and performance and project measurement, evaluation, audits and closure.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
48270 Entrepreneurship and Commercialisation
6cp
Requisites: [120 credit points of completed study C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 120 credit points of completed study C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 120 credit points of completed study C10064 Bachelor of Engineering Bachelor of Business OR 120 credit points of completed study C10065 Bachelor of Engineering Bachelor of Science OR 120 credit points of completed study C10066 Bachelor of Engineering Science OR 120 credit points of completed study C10067 Bachelor of Engineering OR 120 credit points of completed study C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice OR 120 credit points of completed study C10078 Bachelor of Engineering Bachelor of Medical Science OR 120 credit points of completed study C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 120 credit points of completed study C10079 Bachelor of Engineering Bachelor of Biotechnology OR 120 credit points of completed study C10080 Bachelor of Engineering in Civil Engineering OR 120 credit points of completed study C10084 Bachelor of Engineering in Electrical Engineering OR 120 credit points of completed study C10086 Bachelor of Engineering in Telecommunications Engineering OR 120 credit points of completed study C10087 Bachelor of Engineering in Mechanical Engineering OR 120 credit points of completed study C10088 Bachelor of Engineering in Manufacturing Engineering OR 120 credit points of completed study C10091 Bachelor of Engineering in Manufacturing Systems Engineering OR 116 credit points of completed study C10143 Bachelor of Information Technology OR 96 credit points of completed study C10148 Bachelor of Science in Information Technology OR 96 credit points of completed study C10152 Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice OR 96 credit points of completed study C10229 Bachelor of Science in Games Development]
These requisites may not apply to students in certain courses. See access conditions.

Advances in technology and technology-based businesses are a fundamental and increasing component of the sustainable economic wellbeing of developed nations. Engineering and science are the disciplines that underwrite technology advances, most of which occur within small businesses and new ventures. This subject develops students’ understanding of the various roles within an enterprise, and enhances their ability to function effectively in a business environment - with a particular focus on the challenges posed by new ventures and small businesses. A technology feasibility framework is used to present topics such as marketing, sales, negotiation, service, financial manager, market research and organisational leadership. This is an intensive subject with strong practical orientation, using contemporary case studies to broaden students’ perspectives and demonstrate the application of the concepts covered.

Topics addressed include: introduction to entrepreneurship and innovation; introduction to strategy; research and analysis tools - scanning the environment; evaluation of societal, technological, political and financial considerations; intellectual property protection; customers and marketing and opportunity analysis and business planning.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48271 Aerospace Operations: Overview of the Aviation Industry
6cp
This is the first subject in the Aerospace Operations major. It provides an overview of aerospace operations in the aviation industry. Aerospace operations are not seen as unique but as a particular example of a transport system which operates in a commercial, economic and regulatory environment.
Topics include: defining the aerospace industry; what is meant by aerospace operations; historical evolution of air transport with trends in transport aircraft design; fuels; supersonic transport; travel away from earth; energy and materials as key factors; aspects of management and business practice; and an introduction to strategic planning applied at the company and national levels in the context of technological change.

Typical availability
Autumn semester, Singapore
Spring semester, Singapore
Summer session, Singapore
Winter session, Singapore

48272 Airline Operations
6cp
This is the second subject in the Aerospace Operations major. It provides students with skills and understanding in various aspects of flight and ground operations, and the opportunity to analyse system and aircraft performance, and to plan aerospace operations. These activities are central to the overall objectives of the course, and facilitate understanding required of professionals in the industry.

Typical availability
Autumn semester, Singapore
Spring semester, Singapore
Summer session, Singapore
Winter session, Singapore

48273 Managing Aerospace Processes
6cp
This subject provides students with a global view of aerospace operations and allows them to contribute to aerospace operations through integration of material covered throughout the course. The subject considers aerospace as an integral part of the total transport system, aviation law and regulations, and systems engineering theory as it applies to aerospace operations.
This subject also integrates material from other elements of the course to give an overview of aerospace operations. The view in this subject is that aerospace operations are not unique, but a particular example of a transport system which operates in a commercial, economic and regulatory environment.

Typical availability
Autumn semester, Singapore
Spring semester, Singapore
Summer session, Singapore
Winter session, Singapore

48274 Aerospace Design Processes
6cp
This subject provides students with an understanding and appreciation of the design process in general, with particular reference to the aerospace industry. Engineering technologists are primarily concerned with the management of technology. Students must, however, be aware of the design process and the constraints and compromises involved, and this subject gives them that awareness.
Topics include: the principles of design; design philosophies; design practice; design for strength; mechanical element design; introduction to FEA and CFD; concurrent engineering; design for maintainability and aircraft design philosophies and implications, including basic aircraft strength, systems analysis and materials applications.

Typical availability
Autumn semester, Singapore
Spring semester, Singapore
Summer session, Singapore
Winter session, Singapore
48310 Introduction to Civil and Environmental Engineering
6cp
Fields of practice: Civil and Environmental Engineering
Undergraduate
The objectives of this subject are to ensure a general understanding of the role of the civil engineer in the provision of basic infrastructure necessary to the development and maintenance of urban and rural settlement; to provide a sound foundation for further education in the processes of design, construction, operation and maintenance of community infrastructure; to ensure an understanding of the need to develop the necessary individual and multidisciplinary skills in civil engineering project analysis and development; and to develop effective verbal and written communication skills.
Lecture content includes civil engineering and the environment, orthographic and isometric drawings and AutoCAD drawing, loads and deflection, uses and behaviour of construction material (concrete and steel), building dynamics, soils and civil engineering, soil retention structures, road and traffic engineering and water engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48320 Surveying
6cp
Fields of practice: Civil Engineering program
Undergraduate
The objectives of this subject are to enable students to: become competent in the theory and practice of basic surveying skills; be able to use basic surveying equipment such as levels and theodolites and perform the calculations and reductions of observations associated with such equipment; be aware of the likely errors that may occur during observations and of methods to eliminate or minimise such errors; be competent in making distance measurements accurately over short distances using tapes and wires and be aware of the advantages of modern developments in this field such as Electronic Distance-measuring Equipment; be able to perform a simple traverse and associated calculations to find the misclose and proportional accuracy, and the bearing and distance of one missing line; understand and be able to perform relevant calculations for the engineering applications of surveying (horizontal curves, vertical curves, and areas and volumes); and be aware of field techniques used to enable preparation of a detail and contour plan. The stadia method is discussed in class and is used as a data-gathering tool in a practical exercise. The applications of modern computer programs to reduce data for and the plotting of detail and contour plans are introduced. Services of professional surveyors are explained, as are engineering situations where surveyors must be engaged.
Topics include: use of equipment such as levels, theodolites and tapes and wires; calculations related to this equipment, as well as traversing, horizontal curve setting out, design of vertical curves, areas and volumes and stadia and contouring; modern developments in surveying; and the role of the professional surveyor.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48321 Engineering Mechanics
6cp
Requisite(s): 33130c Mathematical Modelling 1 AND 68037c Physical Modelling
Fields of practice: Civil Engineering program
Undergraduate
The subject aims to assist students to acquire a fundamental understanding of static equilibrium concepts commonly used in analysis and design of engineered structures. It also aims to develop their skills to analyse simple structures such as statically determinate beams and trusses subjected to various loading and support conditions. On completion of this subject, students should be able to apply static equilibrium conditions as tools to analyse simple structures, and have developed an appreciation of design in civil engineering. The principles developed in this subject form the basis of structural analysis and design. It introduces students to the fundamental aspects that are a basis for subsequent fields of dynamics in civil engineering such as fluid mechanics, hydraulics and road design.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48330 Soil Behaviour
6cp
Requisite(s): 48331c Mechanics of Solids
Fields of practice: Civil Engineering program
Undergraduate
The objective of this subject is to give a broad-based introduction to the geosciences and a more rigorous introduction to soil as an engineering material. The subject concludes with a detailed study of the problems of soil settlement and soil shear strength. At the completion of the subject students should: be familiar with the natural processes occurring on the surface of the earth; be able to communicate with geologists, earth scientists and others involved in studying the ground; understand the fundamentals of the behaviour of soil as an engineering material; be aware of those aspects of soil behaviour which have a significant environmental impact; be able to solve a range of soil-related problems, especially those involving water flow and soil settlement; and have a solid basis for further formal study and self-study in the geotechnical area. Topics include introduction to soil engineering - typical problems, the engineer's role; geological fundamentals - classification, composition and structure of rock, engineering properties; geomorphology - soil formation, landforms; nature of soil - particulate nature, classification, clay mineralogy; introduction to soil mechanics - overview, state of vertical stress, effective stress; water in soil - groundwater, seepage and permeability; soil environmental impacts - problems, environmental behavioural aspects and properties; settlement of soils - settlement theory, consolidation testing, 1D settlement estimation, elastic deformations, rate of settlement; and soil shear strength - Mohr Coulomb failure law, strength testing, drained and undrained strength.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48331 Mechanics of Solids
6cp
Requisite(s): 48321 Engineering Mechanics OR 48620 Fundamentals of Mechanical Engineering
Fields of practice: Civil Engineering program
Undergraduate
The objectives of this subject are to enable students to: acquire fundamental understanding of the behaviour of structural components commonly used in engineered structures and machines; develop skills to help them model and analyse the behaviour of structural and machine components subjected to various loading and support conditions based on principles of equilibrium and material constitutional relationships.
Content includes: pure bending of beams - flexural stress and strain, calculation of beam loads; shear flow and shear stresses in beams - distribution of shear stresses in beam sections, forces and stresses in shear connectors; composite beams - composite short columns; slope and deflection of simple beams; column buckling - Euler's equation, end conditions and effective length, combined axial and bending stresses for short columns; torsion of circular shafts, thin-walled closed sections and solid rectangular sections; transformation of plane stresses - Mohr's circle of plane stresses, principal stresses and planes; inelastic bending - stress resultants, yield moment and ultimate moment capacity of elastoplastic sections, elastic and plastic section moduls, plastic hinges; product of inertia, principal axes and principal moments of inertia; unsymmetric bending; combined stresses due to axial force, shear force, bending moments and twisting moment; shear centre; transformation of plane strains - measurement of strains, strain rosette, relationship between elastic modulus, shear modulus and Poisson's ratio.
as well as environmental effects such as temperature and foundation load bearing structures respond to the actions of directly applied loads. The analysis of linear elastic structural frameworks. Students learn how to analyse and design structures, internal actions induced by applied loads (axial force, shear force and bending moment) and the response of elements to such actions. The subject introduces civil engineering students to basic environmental concepts and the environmental consequences of civil engineering activities. It applies material learnt in 48210 Interrogating Technology: Sustainability, Environment and Social Change and 60101 Chemistry and Materials Science to real-life situations encountered during planning, designing and implementing civil engineering projects. The subject helps students: develop an awareness of environmental issues; understand the implications of certain processes such as construction within a natural system and to become familiar with both preventive and management strategies to minimise air, water, soil and noise pollution; become familiar with the main aspects of environmental legislation; and understand concepts and design of water pollution control mechanisms.

The main topics are environmental issues and their importance; pollution due to man-made activities, their types and their effect on natural ecosystems; an introduction to local and global environmental problems; environmental legislation and the importance of conducting environmental impact assessment; problems of waste generation and principles of landfill management; generation and management of toxic wastes; contaminated sites and their remediation; concepts of water pollution control; design of water and wastewater treatment works; and project case studies emphasising environmental issues.

The objective of this subject is to give a broad-based introduction to the construction industry and to emphasise the technical and managerial skills needed by engineering professionals working in this area. Much of the value and strength of the subject relates to the development of an understanding that leadership role in engineering construction projects requires a holistic approach that blends technical skill, logical reasoning, judgment and managing activities and people. The construction industry requires all of these aspects to be constantly applied to a myriad of issues both large and small.

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820

Access conditions are available in the individual subject descriptions in the online handbook.
48364 Materials Testing  
6cp  
Requisites: 48331 Mechanics of Solids  
Construction materials used by engineers, independent of their disciplines, vary significantly in their compositions, properties and service performance. Failure of these materials to function effectively in service conditions may lead to extensive damage to components, equipment and structures. In many cases, with the failure of the materials, public safety is also affected. It is important for the engineers to have sound knowledge on the construction materials used in relation to their specification, testing methods, analysis and interpretation of test results. Material testing experience is needed to familiarise test methods and the use of modern equipment. In addition, it provides a practical understanding of design concepts such as stress, strain, strength, stiffness, failure, durability, etc. This subject provides an in-depth knowledge and understanding of test methods for civil engineering materials and recognises the applications and limitation of the testing techniques. This subject is designed to provide opportunity to understand a variety of testing techniques used to evaluate the properties of materials. Techniques include destructive testing, non-destructive testing, durability testing, thermal analysis and scanning electron microscopy, etc. Principles of the techniques, data analysis and applications of the techniques to engineering problems such as failure analysis and phase transformations are studied. After successfully completing this subject, students are able to (i) discuss the justification of a variety of standard and non-standard testing techniques used to assess materials; (ii) explain the applications and limitations of these techniques; (iii) demonstrate a basic level of proficiency in the use of selected testing methods; (iv) select appropriate techniques to assess engineering materials, design or investigate problems and (v) present the test results confidently and in a professional manner.

48365 Materials Performance  
6cp  
Requisites: 48366 Steel and Timber Design AND 48346 Materials Testing AND 48353c Concrete Design  
This subject develops an understanding of the performance of civil engineering materials in relation to their material properties and manufacture processes. It is essential for civil engineers to appreciate the variations and limitations of the performance of civil engineering materials. These materials are dictated by the structure-property relationships based on microstructural and molecular phase morphologies which in turn affect the macroscopic engineering properties, and especially their application to design and construction applications.

Topics covered include: engineering materials such as metals (including steel, aluminium, titanium), ceramic and glasses, polymers, composites and nanomaterials with a main focus on metals. This subject describes the material science principles required for a fundamental understanding of engineering materials and related processes, including in-service durability. After the basic physical and mechanical properties of these materials on both the microstructural and the structural scale are presented (encompassing composition of the materials, phase transformations and mechanical properties), the emphasis is on the performance of the materials in civil engineering design and construction applications. The concepts of material failure, including fracture, fatigue and creep, are introduced. The corrosion and degradation of materials exposed to environmental conditions are presented. There is a strong emphasis on relating the materials science principles to applications of interest in civil and environmental engineering, thereby illustrating the importance of fundamental theoretical knowledge in everyday processes and applications. The manufacturing and engineering application of selected construction materials, including steel, aluminium, concrete and bricks, is introduced and integrated with the fundamental concepts described above.

48366 Steel and Timber Design  
6cp  
Requisites: 48349 Structural Analysis AND 48352c Construction Materials  
Civil engineers who wish to practise as civil engineers in Australia must have knowledge of structural design. Most civil engineers need to have knowledge of and competence in structural design using structural steel and timber. This subject builds on the knowledge of statics, solid mechanics and structural analysis of indeterminate structures that the students have learnt in the previous structural strand subjects. Initially, students revise the Limit State Design philosophy of Australian Standards for structural design. They are introduced to the material properties of structural steel and of timber and engineered wood products and their supply.

Steel topics include failure modes of metals, fracture and fatigue of steel, then, in accordance with the requirements of AS4100 Steel Structures, tension member design (to AS4100), compression member design including in-plane effective lengths of rigid-jointed frames, beam and three-plate girder design for serviceability (deflection) and strength (bending, shear, web-crippling and web-buckling), beam-columns (combined actions) and bolted and fillet-welded connection design.

Timber topics include, in accordance with the requirements of AS1720.1 Timber Structures, Part 1: Design Methods, tension member design, compression member design, beam design for serviceability (deflection) and strength (bending, shear, bearing), combined actions and nailed and bolted joints.

48369 Structural Design 2  
6cp  
Requisite(s): 48359c Structural Design 1  
Fields of practice: Civil Engineering program  
Undergraduate  
All engineers who wish to practise as civil engineers in Australia must have a competent knowledge of structural design to the relevant current Australian Standards, and a competent knowledge of structural analysis to allow the design to be done. Structural analysis is an integral part of the structural design process because it allows engineers to model the behaviour of structures under load and to determine the design actions induced by the applied loads. The prior structural subjects that students have completed have introduced them to statics, solid mechanics, methods of structural analysis, the structural behaviour of materials and structural design of reinforced concrete and timber elements. Structural design then builds on the prior fundamental knowledge of material properties and structural analysis and allows the engineer to design a safe and economical structure complying with the requirements of the relevant Australian Standards, based on his or her knowledge of and experience in structural behaviour.

Students learn about the structural behaviour and become competent in the structural design of steel elements (tension and compression members, beams, beam-columns and bolted and welded in-plane connections), reinforced concrete pad footings and cantilevered retaining walls and of prestressed concrete flexural elements in accordance with the relevant Australian Standards, AS4100-1998, AS3600-2001 and AS1170.2-2002. The competence gained in structural analysis assists students in gaining experience and competence in the structural design of these structural components.

Topics include: structural steel - material properties, tension and compression members, in-plane effective lengths, beam design (section moment capacity, lateral-torsional buckling, shear, web crippling, web buckling and three-plate girders, beam-columns, bolted and welded in-plane connections, fracture and fatigue behaviour and design; reinforced concrete - isolated pad footings and cantilevered retaining walls; prestressed concrete - introduction to prestressed concrete behaviour, load-balancing and equivalent load techniques, cracked and cracked section analyses, linear elastic and ultimate behaviour in beams, serviceability of beams and ultimate strength design for moment and shear in beams, strength at transfer and end block reinforcement.

Typical availability  
Autumn semester, City campus  
Spring semester, City campus  
Autumn semester, Hong Kong  
Spring semester, Hong Kong  
Summer session, Hong Kong  
Winter session, Hong Kong
The objectives of this subject are to enable students to understand the relationship between transport and land use; the basic concepts of transportation relating to modelling and design; and the relationship between urban form, energy use and sustainability. Students also learn to design feasible transport schemes using a variety of modes and to evaluate transportation projects in terms of their capacity, cost, environmental impact and equity. Topics include land-use transportation interaction; the transportation planning system; environmental impact of transport and issues in ecologically sustainable transport; design principles used in public transport; transport economics, privately funded infrastructure and freight issues; the geometric design, pavement design and the capacity of roads; and the needs of pedestrians and cyclists and the overall road safety issue.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48371 Advanced Engineering Computing
6cp
Requisite(s): I48221 Engineering Computations AND 48349 Structural Analysis AND (120 credit points of completed study C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 120 credit points of completed study C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 120 credit points of completed study C10065 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 120 credit points of completed study C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice OR 120 credit points of completed study C10073 Bachelor of Engineering Bachelor of Science OR 120 credit points of completed study C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 120 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 120 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice) AND 48366c Steel and Timber Design AND (I48359 Structural Design 1 OR 48353 Concrete Design)

Fields of practice: Civil Engineering program, Civil and Environmental Engineering program
Undergraduate
This subject introduces senior civil engineering students to the preparation and analysis of computer models of load-bearing structures. Students learn how to establish loads on buildings in compliance with Australian standards and how to apply them correctly to the computer models they prepare. Building on subjects completed earlier for the design of structures, students extend their design skills by being introduced, in hands-on lab sessions, to commercial software programs for structural analysis and drafting.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48410 Introduction to ICT Engineering
6cp
Requisite(s): C10062 Hydraulics and Hydrology

This subject introduces students to the foundations of information and communication technology (ICT) engineering. This includes the nature of the ICT industry and basic concepts and terminology used in ICT. Particular emphasis is given to the way in which the ICT industry has developed and is continuing to evolve, and the way in which this industry can benefit from (and in turn help shape) the practice of engineering.

Case studies are undertaken as problem-based assessment items which offer students opportunities to delve into the specialties of telecommunications engineering, computer systems engineering and software engineering.

48430 Embedded C
6cp
Requisite(s): 48441c Introductory Digital Systems

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Fields of practice: Computer Systems Engineering program
Undergraduate
This subject introduces students to procedural programming in the C programming language. Students are expected to develop programs that could run in an embedded environment that may not possess the support of an operating system. Suitable analysis and design techniques are covered and testing is emphasised as an important development task. Individual programming tasks and a final examination ensure the essential skills are present.

Typical availability
Autumn semester, City campus
Spring semester, City campus
48433 Software Architecture

6cp
Requisite(s): 48440 Software Engineering Practice OR 31449 Object-oriented Design OR 31279 Software Development and Processes OR 31244 Applications Programming OR 48024 Applications Programming
Undergraduate

This subject teaches students how to design, develop and evaluate software architecture meeting predefined quality characteristics of functionality (suitability, security), usability (operability), efficiency (time behaviour, resource utilisation) and maintainability (changeability, testability). Concepts, theories and technologies underlying the methods and techniques are introduced and explained as required. Students apply all that they have learned to develop an architecture of a business system.

Typical availability
Spring semester, City campus

48434 Embedded Software

6cp
Requisite(s): 48430 Embedded C
Recommended studies: knowledge of the C language and digital systems is essential for this subject
Field of practice: Electrical Engineering major
Undergraduate

This subject presents the theoretical and practical basis for the structure, operation and design of embedded software with an in-depth treatment of modern software design methodology. Software development involves some assembly language. The subject covers compiler and debugger tools; serial I/O and protocols; non-volatile memory; arithmetic operations; timing and interrupts; digital and analog interfacing; concurrent software; program optimisation; multi-module and multi-language programs; numerical techniques specific for certain tasks (such as the FFT and fuzzy logic control); real-time operating systems and Internet connectivity.

The technical content is contextualised in a project in which students analyse the requirements of an embedded system and design the software to meet those requirements. Skills in debugging software are also developed through the practice-based nature of the subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48436 Digital Forensics

6cp
Requisite(s): 31252 Network Security OR 48730 Authentication and System Security
Recommended studies: an understanding of the principles and objectives of network security and of the fundamentals of network security technologies, CCNA-level networking concepts and skills, in particular packet analysis skills
This is a practice-based subject, using material based on the textbooks. Learning is laboratory-based. The emphasis is on digital forensics applications, in particular:
- forensic analysis of a digital storage device where evidence is recovered to support or oppose a hypothesis before a criminal court
- eDiscovery (a form of discovery related to civil litigation)
- intrusion investigation into the nature and extent of an unauthorised network intrusion.

48440 Software Engineering Practice

6cp
Requisite(s): 48024 Applications Programming OR 31244 Applications Programming
Undergraduate

This subject introduces students to the fundamentals of software engineering. An overview of the software development life cycle and the processes, methodologies and tools that support it is presented. Current trends and challenges in the practice of software engineering are explored. Students apply the principles and methods of software engineering to project work in small teams.

Typical availability
Spring semester, City campus

48441 Introductory Digital Systems

6cp
Requisite(s): 48510 Introduction to Electrical Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Fields of practice: Computer Systems Engineering program
Undergraduate

The objectives of this subject are to enable students to master the fundamentals of digital and programmable electronic circuits and their engineering applications; master the hardware architecture of a typical small computer system; and understand the principles of low-level programming and gain an ability to write simple assembly code. Students are introduced to the basics of concurrent and real-time application programming. Topics include digital sequential circuits; state diagram and its application in the design of digital circuits; basic hardware architectures of the digital computer in terms of its building blocks; how hardware integrates with software at the machine level; low-level language programming; internal architecture and design of a typical register-based central processing unit and a main memory subsystem, and their interdependence; concepts of computer system buses, as well as different types of input and output devices; interrupts; input and output; micro-controller theory; hardware interfacing design techniques; and aspects of real-time programming, concurrency and multiple processing, the design of a basic multi-tasking operating system and the solution of a concurrent application.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48450 Real-time Operating Systems

6cp
Requisite(s): 48434 Embedded Software
Fields of practice: Computer Systems Engineering program
Undergraduate

This subject addresses the purposes, design alternatives and uses of computer operating systems. After several weeks studying the areas of responsibility that an operating system possesses in the context of a conventional computing environment, a treatment of operating systems in support of meeting real-time computing requirements is completed.
Topics include: process management, scheduling and inter-process communication, memory management and I/O device management. Comparisons of designs including monolithic and microkernel approaches. Embedded systems are explored as case studies for investigating operating systems modifications. The Linux kernel is studied as an example of a UNIX environment and programming exercises are completed in POSIX compliant C. Real-time systems are studied with treatments of rate monotonic, deadline monotonic and dynamic scheduling strategies.

Typical availability
Spring semester, City campus

48451 Advanced Digital Systems

6cp
Requisite(s): 48441 Introductory Digital Systems
Fields of practice: Computer Systems Engineering program
Undergraduate

The subject has two major components: (i) analysis/design, and (ii) implementation, of an advanced computing node. The components are integrated and are each worth 50 per cent of the subject mark.
The subject provides an in-depth understanding of the analysis/design and implementation of advanced digital hardware at medium scale computer system building block level. It builds on the basics of 48441 Introductory Digital Systems introduced in the earlier fields of practice subject.
Topics include: digital design process, functional design, implementation technologies, advanced computer architectures, and memory and I/O systems. It emphasises computer-aided design, including the use of VHDL specification, simulation and programmable VLSI implementation technologies.
Typical availability  
Autumn semester, City campus  
Spring semester, City campus  

48471 ICT Analysis  
6cp  
Requisite(s): 48260c Engineering Project Management AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 120 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 120 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 120 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Medical Science OR 120 credit points of completed study in C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 120 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 120 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice OR 120 credit points of completed study in C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice))  
This problem-based subject focuses on the specification and analysis of assigned, complex information and communication technologies (ICT) projects. Formal, plenary sessions of lecture/tutorials are used to teach project theory whereas problem-based learning is used for the specification and analysis of the assigned projects. Problem-based learning requires students to participate and take the initiative in researching topics not necessarily dealt with by formal sessions but required by the project.  
In this subject, it is the students’ responsibility to work out what they need to learn. Students learn to deal with the analysis phase of the ICT project lifecycle - planning; specification and analysis; architecture and high-level design. In the subsequent design subject (48481), students learn to deal with the development phase of the ICT project lifecycle - low-level design; implementing/building the product; plus associated testing. Skills gained include: teamwork; the use of technical planning strategies; experience in the use of standards and industry best practices; formal project specification; system performance analysis; reliability analysis; project risk abatement strategies; quality assurance factors including the quality of product and quality of process; system architecture development; system build and integration strategies; formal project development processes; assessment of managerial, financial, ethical and social issues; verification and validation; and user interfacing issues.  
Students are organised into large groups of typically 15 to 20 students per group. Each group is then usually subdivided into teams of about three or four. A team focuses on one component of the group assignments. Group subdivision, structure and overall project management is decided by the group members. There are usually three group assignments: Assignment 1 is often the draft of the analysis deliverable, which allows students to prepare and plan for the actual deliverable; Assignment 2 is often the actual deliverable. In Assignment 3, students are usually required to review and critique another group’s actual deliverable, which may be used in the subsequent design subject, for development and implementation purposes.  

48481 ICT Design  
6cp  
Requisite(s): 48471 ICT Analysis  
Recommended studies: proficiency with programming in at least one OO language (e.g. C#, Java, C+++) is required  
This subject organises students into large groups (typically 15 to 20 students a group), which undertake to develop information and communication technologies (ICT) projects previously specified and analysed in the subject 48471 ICT Analysis. The emphasis of this subject is one of commitment and self-management. Students choose the subdivision, structure and overall project management of their group; commit to a project plan that is self-actuated; track and control artefacts of their project development using a configuration management system; and objectively assess project outcomes in a presentation and demonstration to an audience that often consists of academic and industry luminaries. Students develop a project within the subject’s duration, using ICT engineering / project processes and methodologies, including time and budget management. The project is then used for group assessment once completed. The group decides on all development methodologies and processes for the project; identifies several design solutions, which meet project requirements; and assesses the value of each on the basis of functionality, performance and cost to implement. Students learn to write clear, concise documentation and learn to be effective group members through understanding the essentials of team organisation and how to be productive within a group project. Students constantly examine what they do, in self-critical exercises, and are invited to review existing deliverables and products, making decisions about their value to their ICT project development by reviewing their impact on the established architecture and high-level design, making changes as necessary in a series of supplementary design documents. The final component in the presentation and demonstration of the developed project. The subject is facilitated by an academic team whose responsibilities include formal lectures as required, tutorials, laboratories, workshops and seminars, and provide conflict resolution for any difficulties that may arise from the group activities.  

48510 Introduction to Electrical Engineering  
6cp  
Fields of practice: Electrical Engineering program  
Undergraduate  
The subject material is organised around two modules. In Module 1 (The Basics) basic electrical concepts such as voltage, current, resistance and power are introduced; simple circuit analysis techniques for DC and AC circuits are studied; and an analysis of the types, properties and functions of components commonly found in a linear DC power supply is used as an application of this basic knowledge. The practical aspects of this module include learning how to use basic equipment such as a multimeter and digital storage oscilloscope (DSO), learning some simple ‘tinkering’ skills, and building and testing basic electronic circuits. In Module 2 (Signals in Electrical Engineering) an application called the Filter Challenge is used to provide a context for presentation of material related to time and frequency domain representation of electrical signals including Bode plots and simple first-order RC filters.  

Typical availability  
Autumn semester, City campus  
Spring semester, City campus  

48520 Electronics and Circuits  
6cp  
Requisite(s): 48510 Introduction to Electrical Engineering AND 33130 Mathematical Modelling 1  
Recommended studies: basic physics and single variable calculus are essential for this subject  
Fields of practice: Electrical Engineering  
Undergraduate  
The main objective of this subject is to familiarise students with basic electronic circuits, mainly with op-amps as active elements, and their applications. By the end of the subject, students should have acquired reasonable proficiency in the analysis of basic electronic circuits and be able to build and test circuits in the laboratory. Particular emphasis is placed on the practical, hands-on aspect of electronics to provide a solid foundation of working knowledge for basic analog electronic circuits using op-amps. Laboratory work is a significant proportion of in-class delivery so as to make students proficient in circuit construction, testing, troubleshooting and to give them a sound knowledge of the use of test instruments. Another objective is to show that practical electronic applications are relevant to other engineering and technical disciplines and may often be placed within a wider social or commercial context.  

Typical availability  
Autumn semester, City campus  
Spring semester, City campus
48521 Fundamentals of Electrical Engineering
6cp
Requisite(s): 48510 Introduction to Electrical Engineering AND 68037 Physical Modelling AND 33230c Mathematical Modelling 2
Recommended studies: basic physics and single variable calculus are essential for this subject, as well as basic electric circuit theory
Field of practice: Electrical Engineering major
Undergraduate
The subject revises the concepts covered in the subject Introduction to Electrical Engineering. It introduces basic electrostatic and electromagnetic theory, magnetic devices, semiconductor devices, electronic amplifiers and electrical measurements. An additional objective of the subject is to cover the essential theory and basic practical skills needed by students in their first Engineering Experience internship.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48530 Circuit Analysis
6cp
Requisite(s): 48520 Electronics and Circuits AND 48521 Fundamentals of Electrical Engineering
Field of practice: Electrical Engineering program
Undergraduate
In this subject students are assumed to have knowledge of basic electrical circuits and devices and basic circuit analysis skills

Typical availability
Autumn semester, City campus
Spring semester, City campus

48531 Electromechanical Automation
6cp
Requisite(s): [I68520 Electronics and Circuits OR 48660 Dynamics and Control] AND 33230c Mathematical Modelling 2
Field of practice: Electrical Engineering major
Undergraduate
The objectives of this subject are to consolidate fundamental knowledge of electric and magnetic fields; electric and magnetic circuits; how electric, magnetic and electromagnetic energy are interchanged; to model an electromechanical automation system using DC and AC motors and simulate its performance in open-loop and closed-loop control. Students also acquire skills in working with machines and equipment at normal mains supply voltage, in power instrumentation and control, PLCs and in experimental design and recording. Technical and theoretical content is expected to be acquired by students to the levels of 'know' (essential), 'familiar' (can solve problems if required) and 'aware' (have read / seen). Laboratory skills, ranging from electrical safety, measurements, design validation and experimental verification are an important focus of this subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48540 Signals and Systems
6cp
Requisite(s): 48530 Circuit Analysis
Recommended studies: circuit analysis in both the time and frequency domains, utilising mathematics involving solutions to differential equations using time-domain techniques as well as transform methods
Field of practice: Electrical Engineering program
Undergraduate
This subject presents the theoretical basis for system analysis and gives students skills in using the techniques to design components of real control / communication systems. The derivation of models from real-world devices through measurement and the comparison of model predictions with experimental results is emphasised in the laboratory component of the course. A group project that requires the design and implementation of part of a control / communication system allows students to apply their knowledge to a real-life problem. Topics include signal types and their representation in the time and frequency domains; modelling systems with differential or difference equations and transforms of the equations; signal operations and processing; the relationship between discrete and continuous quantities and the mathematical techniques applicable to each; the effects of feedback; time and frequency domain performance of systems; system stability; and control design techniques and simple communication systems. Through learning activities students also gain study skills, including academic literacy skills, and an appreciation of the different fields of practice of engineering and the interdisciplinary nature of engineering.

Class time is used for lecture-type resource sessions and tutorials. There are a number of formal laboratory sessions that apply control and communication theory, which also familiarise students with the laboratory equipment. The subject culminates in the design and implementation of a control system and communication system for a remote-controlled robot.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48541 Signal Theory
6cp
Requisite(s): 33230 Mathematical Modelling 2
Field of practice: Electrical Modelling 2
Undergraduate
This subject revises the concepts covered in the subject Introduction to Electrical Engineering and gives students skills in using the techniques to design components for telecommunications systems. The derivation of models from real-world devices through measurement and the comparison of model predictions with experimental results is emphasised in the laboratory component of the subject.

Class time is used for lecture-type resource sessions and tutorials. There are a number of formal laboratory sessions that apply signals and systems theory to different engineering disciplines. Through various learning activities, students also gain study skills, including academic literacy skills, and an appreciation of the different fields of practice of engineering and the interdisciplinary nature of engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

Note(s)
This subject was formerly called Signals and Systems (Telecommunications).

48550 Renewable Energy Systems
6cp
Requisite(s): 48531 Electromechanical Automation
Field of practice: Electrical Engineering major
Undergraduate
This subject aims to introduce students to contemporary renewable energy technology, including sustainability and environmental issues, energy resources, electric power generation from renewable energy sources, such as solar, wind, geothermal, wave, tide, etc., energy storage and system integration. Design techniques for renewable energy systems are discussed in detail. Students are able to practice their design skills of renewable energy systems through three assignments specified as system specification, analysis of options and system design, respectively. By studying this subject, students gain knowledge and essential skills to design a renewable energy system.

Typical availability
Autumn semester, City campus
Spring semester, City campus

In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.
826

Typical availability
Spring semester, City campus

48551 Analog Electronics
6cp
Requisite(s): 48530 Circuit Analysis AND 48570 Data Acquisition and Distribution
Field of practice: Electrical Engineering major
Undergraduate
This subject draws on, and brings together, the knowledge and skills developed in earlier subjects such as Electronics and Circuits and Circuit Analysis, and teaches students to analyse, understand and design complex electronic circuits and systems. Particular emphasis is placed on developing the ability to model real-life devices, to understand their imperfections and limitations. The principal goal of this subject is to give all students - whether destined to become circuit designers or engineers who simply use electronics - the tools necessary to make intelligent choices in the design of modern electronic circuits and systems.

On completion of this subject students should be able to: understand the operation and characteristics of BJTs and MOSFETs in integrated circuits; understand the internal structure of typical IC Op-Amps and the operation of its basic building blocks; understand the character and sources of non-idealities in IC Op-Amps; select an appropriate device type for a specific application; understand the frequency-domain behaviour of circuits and systems; understand the feedback principle and use it to advantage in circuit and system design; be familiar with other analog circuits like oscillators, converters, multipliers, etc.; use computer simulation to analyse and design circuits and systems; and be familiar with basic techniques used in CAD of electronic circuits and systems. The project brings together three fundamental stages of electronic circuit development: preliminary design, verification and refinement by simulation as well as building and testing a prototype.

Topics include: review of basic BJT, MOSFET and Op-Amp circuits; computer-aided design (tools and principles); differential and multistage amplifiers; non-ideal characteristics of Op-Amps; output stages and power amplifiers; review of different Op-Amp types; frequency response of linear circuits and systems; feedback principles and applications; signal generation and waveform shaping; filter design principles; other analog circuits (data converters, multipliers, etc.); noise in integrated circuits; and grounding, coupling and decoupling techniques.

Typical availability
Spring semester, City campus

48560 Introductory Control
6cp
Requisite(s): 48560 Signals and Systems
Field of practice: Electrical Engineering major
Undergraduate
The objective of this subject is to enable students to model with validation control systems and to analyse, design and implement both analog and digital controllers so that the controlled systems conform with given specifications. Emphasis is placed on laboratory work, the theoretical content of the subject being only that required to produce successful designs. Students are required to work on reduced scale models of actual industrial processes. The equipment is based upon selected experiences gained with authentic control applications and is suitably modified for student use. Students follow the usual sequence adopted in industry, i.e. they start with the calibration of transducers and actuators leading on to dynamic response testing, physical modelling, model verification and finally to controller design, implementation and testing. Topics include linear and nonlinear modelling of control systems using Newton's rules, analogous networks or Lagrangian techniques; linearity and development of linear, time-invariant transfer functions; development of lead-lag compensators or PID controllers using classical control design techniques such as root locus, Bode gain and phase diagrams, Nyquist plots and Nichols chart; development of state-variable equations from differential equations; development of state-variable feedback controllers and state observers; open-loop pulse transfer functions and discrete-time state models; discretisation using backward difference, bilinear, step-invariance or pole-zero mapping; development of digital PID controllers, deadbeat controllers and discrete-time state-variable feedback controllers; describing functions and limit cycles for nonlinear control systems; and the development of linear controllers for nonlinear systems using describing function techniques.

Typical availability
Autumn semester, City campus

48570 Data Acquisition and Distribution
6cp
Requisite(s): [(48541 Signal Theory AND 48520 Electronics and Circuits) OR 48540 Signals and Systems] AND 48441 Introductory Digital Systems
Recommended studies: basic electronics and circuits using operational amplifiers are essential
Field of practice: Electrical Engineering program
Undergraduate
By the end of this subject students should be able to analyse, design, build and test data acquisition and distribution systems (DADS), measurement systems, and intelligent instrumentation systems; characterise, specify and select to satisfy the requirements of a DADS: sensors/transducers and associated circuits, transducer analogue interfacing and signal conditioning circuits, and data conversion devices and systems; interface DADS to computers, plant and installations; and write, test and embed control and programming software for DADS interfacing. Material to be taught and learnt includes applications, requirement specifications and typical architectures of DADS; general performance characteristics of DADS components and subsystems; physical principles and design fundamentals of sensors and transducers; mechanical, temperature, pressure, flow-rate, level transducers and applications; optoelectronic transducers and applications; transducer analogue interfacing; precision amplifiers and low-level signal conditioning; noise, guarding and shielding in instrumentation systems; data conversion devices and systems; DADS design; time and error budget of DADS; computer structures for DADS; DADS interfacing to computers and control software; intelligent instrumentation systems; and data integrity.

Typical availability
Autumn semester, City campus

48561 Power Electronics and Drives
6cp
Requisite(s): 48531 Electromechanical Automation
Field of practice: Electrical Engineering major
Undergraduate
The objectives of this subject are to enable students to: acquire an understanding of the nature of power semiconductor devices and their control and use in switch-mode; understand the arrangement and topology of the circuits in which switch-mode devices are used; appreciate the use of power electronic circuits in high-power applications such as motor drives; be aware of the electromagnetic interference problems associated with power electronic systems; use commercial software for the rigorous circuit analysis of real power electronic systems; analysis and design circuits to meet specific specifications; and fabricate basic power electronic circuits such as a chopper. Topics include: topology and switching characteristics for IGBT, MOSFET, GTO, Thyristor and other devices; gate drive circuit requirements; power conversion circuits including DC-DC choppers, AC-DC controlled rectifiers, and DC-AC inverters; pulse-width modulation techniques; snubbers and thermal design for power devices; voltage and current controlled inverters; applications such as switch-mode power supplies, DC drives, AC drives, UPS systems, HVDC; recent advances in device technology; control techniques; and EMC and electromagnetic interference.

Typical availability
Spring semester, City campus

48571 Electrical Machines
6cp
Requisite(s): 48531 Electromechanical Automation AND 48430 Circuit Analysis AND 68038 Advanced Mathematics and Physics
Recommended studies: advanced physics and calculus are essential for this subject, as well as an understanding of circuit theory and machine principles
Field of practice: Electrical Engineering major
Undergraduate
This subject aims to introduce to students modern electrical machines and drives. Issues such as variable speed drive and energy efficiency are addressed. The contents of the subject include introduction of...
electrical machine technology and applications, Matlab/Simulink models of power electronic converters, three phase electrical circuits, single phase and three phase transformers, high frequency transformers used in power electronic circuits, fundamentals of electrical drives, DC machines and drives, synchronous machines and drives, induction machines and drives, and switched reluctance machines. The numerical simulation of various modern drive systems is presented. The subject is delivered through lectures, tutorials, laboratory experiments and assignments.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

### 48572 Power Circuit Theory

6cp
Requisite[s]: 48530 Circuit Analysis

Recommended studies: an understanding of electric circuit theory is essential to this subject, as well as the solution to ordinary differential equations. It is assumed that the students have prior knowledge in the following: Complex numbers and its application to the analysis of AC circuits. Circuit analysis. Fundamentals of electrical machines. MATLAB programming to solve simple problems

Field of practice: Electrical Engineering major

Undergraduate

The subject introduces the basic methods used in the analysis and design of electric power networks. Its purpose is to give students a working knowledge of modern power system theory and practice. Techniques introduced in earlier circuit analysis subjects are further developed and applied to power system problems.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

### 48580 Advanced Control

6cp
Requisite[s]: 48560 Introductory Control

Recommended studies: previous study of simple control systems using transfer functions and state-variables is essential

Field of practice: Electrical Engineering major

Undergraduate

This subject covers advanced techniques for analysis and design of modern control systems. The objectives of this subject are to consolidate fundamental knowledge of state space and state feedback, how to design pole placement, state observers and output feedback control. Topics include also nonlinear systems and Lyapunov stability theory, adaptive control, optimal control and robust control. Project work is conducted on a continuous basis throughout the semester.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

### 48581 Digital Electronics

6cp
Requisite[s]: 48530 Circuit Analysis AND 48570 Data Acquisition and Distribution

Recommended studies: basic electronics and circuit theory knowledge and experience with digital systems is required for this subject

Field of practice: Electrical Engineering major

Undergraduate

The objective of this subject is for students to design, build and test hardware for an embedded application that utilises a modern digital integrated circuit, such as a field programmable gate array (FPGA), a microcontroller or a digital signal processor (DSP). It draws together many elements of engineering - system specification, design, implementation, testing, documentation and management - all in the context of a modern digital electronic system.

This subject presents the theoretical and practical basis for the structure, operation and design of embedded systems with an in-depth treatment of modern hardware components. The integrated circuits introduced are field programmable gate arrays, microcontrollers, digital signal processors, embedded PCs, memory subsystems, I/O subsystems; serial I/O subsystems; and some analog subsystems. Modern computer-aided hardware design software is used extensively. Topics such as PCB manufacturing, surface-mount technology and EMC compliance are also treated in depth.

**Typical availability**
Autumn semester, City campus

### 48582 Power Systems Analysis and Design

6cp
Requisite[s]: 48572 Power Circuit Theory

Recommended studies: power circuit theory knowledge is essential for this subject

Field of practice: Electrical Engineering major

Undergraduate

The primary objective of this subject is the development of a working knowledge of power systems analysis and design. Emphasis is placed on the derivation of equivalent circuits, mathematical models of devices and the system, and on methods of analysis and measurement. Material covered includes electricity supply chain building blocks, system analysis, real/reactive power and load flow analysis, dynamic and transient stability.

**Typical availability**
Autumn semester, City campus

### 48583 Power Systems Operation and Protection

6cp
Requisite[s]: 48572 Power Circuit Theory

Recommended studies: power circuit theory knowledge is essential for this subject; complex numbers and its application to the analysis of AC circuits; power circuit analysis and fault calculations; fundamentals of electrical machines; MATLAB programming to solve simple problems

Field of practice: Electrical Engineering major

Undergraduate

The primary objective of this subject is the development of a working knowledge of power systems operation and protection. The subject aims to provide students with a knowledge and understanding of elements of the supply chain and how they function in the National Electricity Market; demand-side management options including smart meters; load forecasting and optimal load scheduling for secure energy supply and use; protection schemes for transmission and distribution networks; communications in power systems, including communication media, architectures, automation, standards, protocols and security; and basic design, connection and standards of current and voltage instrument transformers for protection and metering applications.

**Typical availability**
Spring semester, City campus

### 48600 Mechanical Design 1

6cp; 3hpw (lecture), 2.5 hpw (workshop)
Requisite[s]: 48610 Introduction to Mechanical and Mechatronic Engineering

Recommended studies: 48240 Design Fundamentals, 48331 Mechanics of Solids, 48621 Manufacturing Engineering, 48510 Introduction to Electrical Engineering

Field of practice: Mechanical Engineering program and Mechanical and Mechatronics Engineering program

Undergraduate

This subject is the first in a set of three engineering design subjects. It builds on and brings together the concepts introduced in earlier subjects (e.g. the prerequisite subject). Topics covered include the mechanical design process, graphical presentation of engineering ideas and components, computer-aided design, engineering materials and processes and aspects of engineering knowledge. A prototype design-and-build project is a major component of this subject.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus
This subject aims to develop students' fundamental knowledge and understanding of the dynamics of various mechanical systems; provide students with knowledge and skills in vibration testing and data acquisition; facilitate students' in-depth learning of the theory and methods, including modelling, modal analysis, system identification and numerical approaches; familiarise students with techniques and data acquisition system used in vibration testing, measurement, signal processing for determining the dynamic characteristics of a physical system; and enable students to apply the learnt methods to real world applications which include vehicle suspension design, vibration analysis and condition monitoring of rotating machines. The subject contains basic vibration theory for the analysis of two or more degrees of freedom multi-body mechanical systems, basic topics on widely-used engineering measurements, data acquisitions, spectrum analysis, signal processing and their applications in vibration control and machine condition monitoring. Case studies of engineering applications are also covered through special lectures and projects.

Typical availability
Spring semester, City campus

48610 Introduction to Mechanical and Mechatronic Engineering
6cp
Fields of practice: Mechanical Engineering program
Undergraduate
The subject introduces the student to engineering sketching and drawing, computer-aided design and solid modelling, engineering design, engineering mechanics, mechanical systems and components, mechatronics, and wind power and energy conversion. Students learn to graphically represent engineering components by sketching, using drawing instruments and/or computer methods using standard representation techniques such as orthogonal projection. Students learn basic engineering mechanics and how to apply this to analyse simple machines, mechanisms and structures. Students also learn basic mechatronics principles and apply them in a mechanical system that they design and build themselves.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48620 Fundamentals of Mechanical Engineering
6cp
Requisite(s): 48610 Introduction to Mechanical and Mechatronic Engineering AND 68037 Physical Modelling AND 33130 Mathematical Modelling 1
Fields of practice: Mechanical Engineering program
Undergraduate
The objectives of this subject are to build on the engineering science fundamentals that were introduced in 48610 Introduction to Mechanical and Mechatronic Engineering and which are required for later subjects, and to sharpen the focus on the university experience emphasised in early-stage subjects. Students should gain an understanding of the approach to learning required of university study; Newtonian mechanics, which is one of the fundamental sciences underlying engineering practice; the modelling concept, as applied to Newtonian mechanics; the idea of particle mechanics and its limitations; basic engineering concepts such as equilibrium, force and acceleration, work, energy and power, impulse and momentum, and the relationships between them; and the idea that acceleration may result from a change in direction as well as change in magnitude of velocity.
Topics include: drawing and understanding the use and purpose of free body diagrams, frames and machines; stress resultants; kinematics and dynamics of plane motion; work, energy and power; linear impulse and momentum; conservation of momentum, impact; centroids and centres of mass; and area moments of inertia.

Typical availability
Spring semester, City campus

48621 Manufacturing Engineering
6cp
Requisite(s): 48610 Introduction to Mechanical and Mechatronic Engineering
Fields of practice: Mechanical Engineering program
Undergraduate
The objectives of this subject are to: explain and provide examples of manufacturing processes involved in casting, forming machining and joining of materials; identify and describe the manufacturing process by which products are made of different materials: metals, polymers, ceramics and composites; demonstrate improved technical written and graphical communication skills by completion of specified laboratory reports and site visit reports; and demonstrate basic problem-solving skills relating to manufacturing and production. Students learn the processes and materials available, as well as a competent and practical approach to evaluating, selecting and recognising the connections between the materials/processes and engineering design.

Typical availability
Spring semester, City campus

48622 Mechatronics 1
6cp
Requisite(s): 48510 Introduction to Electrical Engineering
Fields of practice: Mechanical and Mechatronics program
Undergraduate
The objectives of this subject are to enable students to: master the fundamentals of digital and programmable electronic circuits and their engineering applications; master the hardware architecture of a typical small computer system; and understand the principles of low-level programming and gain an ability to write simple assembly code. Students will be introduced to the basics of concurrent and real-time application programming.
Topics include: digital sequential circuits; state diagram and its application in the design of digital circuits; basic hardware architectures of the digital computer in terms of its building blocks; how hardware integrates with software at the machine level; low-level language programming; internal architecture and design of a typical register-based central processing unit and a main memory subsystem, and their interdependence; concepts of computer system buses, as well as different types of input and output devices; interrupts; input and output; micro-controller theory; hardware interfacing design techniques; and aspects of real-time programming, concurrency and multiple processing, the design of a basic multi-tasking operating system and the solution of a concurrent application.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48623 Mechatronics 2
6cp
Requisite(s): [(48441 Introductory Digital Systems AND 48531 Electromechanical Automation) OR 48622 Mechatronics 1]
This subject builds on and brings together the concepts introduced in Mechatronics 1, Electronics and Circuits, and Object-oriented Programming. It is intended to provide students with comprehensive hands-on experience in system design. The concepts of sensing, actuation, control, hardware and software are demonstrated through a commercially available robotics platform. Subject matter includes: PLCs, sensing, actuation, path planning, control, memory and interfacing circuits, tools for microprocessor-based system design, development and testing of prototype systems. The subject includes a major project where groups of students design, develop and commission a microprocessor-based product.

Typical availability
Spring semester, City campus
48640 Machine Dynamics
6cp
Requisite(s): 48620 Fundamentals of Mechanical Engineering
Fields of practice: Mechanical Engineering program
Undergraduate

The objectives of this subject are to give students an understanding of the kinematics and dynamics of rigid bodies in general planar motion, which is typically encountered in design and analysis of mechanical systems, and an elementary understanding of the vibration of mechanical systems, in particular the dynamic behaviour of single-degree-of-freedom mechanical systems with various damping and applied forces. Students should be able to: model problems in rigid body planar and spatial kinematics and rigid body planar dynamics; understand energy methods in contrast to direct applications of Newton's second law of motion for setting up a model; understand the physics of a problem formulated from a real mechanical system; appreciate the role of vibration in machines and structures in the engineering world; understand the procedures required to evaluate a vibration problem; and analyse the dynamic response of single-degree-of-freedom mechanical systems. The subject also covers the concept of a rigid body, full nomenclature used in kinematics, two-body velocity equations, velocity pole and velocity diagrams of planar motion; two-body acceleration equations and acceleration diagram; three-body velocity equations and acceleration equations including Coriolis acceleration term; angular velocity acceleration equations including three-dimensional problems; F=ma applied to a rigid-body-dynamics, significance of 'centre of mass', the 'moment' relationship (M=Ia, etc.); angular momentum, conservation of angular momentum (general case, centre of mass moving, no 'fixed' point); linear and angular impulse problems; energy methods for general planar motion; elementary principles of vibration theory such as 48620 Fundamentals of Mechanical Engineering, 60101 Chemistry and Materials Science, and 48331 Mechanics of Solids. It also prepares students for the more dedicated design subjects to come and exposes them to practical aspects of mechanical engineering design. The objectives are that students should be able to: understand, describe and use the methodology of modelling material properties and behaviour; understand and describe the fundamental differences in the behaviour of different types of materials; understand and describe how and why things fail; realise the importance of material selection in engineering design; predict, or design to avoid, failure given the material, environment and loading conditions; and use analytical skills in stress analysis and knowledge of material properties in mechanical design. Topics include: the use of stress analysis and material properties in materials selection and mechanical design; stress analysis - revise concept of normal and shear stress; combined stress; structures and m/c components; impact; material behaviour - time dependent material properties; strength; failure modes - theories, criteria for static failure (e.g. Tresca, von Mises, Mohr), fracture, creep, and fatigue; and strain energy methods.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

48641 Fluid Mechanics
6cp
Requisite(s): 33230 Mathematical Modelling 2
Fields of practice: Mechanical Engineering program
Undergraduate

This subject aims to enable students to: understand key concepts and fundamental principles, together with the assumptions made in their development, pertaining to fluid behaviour; both in static and flowing conditions; deal effectively with practical engineering situations, including the analysis and design of engineering systems and devices involving fluids and flow; appreciate possible applications and links to other disciplines; and engage in further specialised study or research. The subject also aims to enhance interest in fluid phenomena and applications. Topics include: fluid properties and statics; conservation laws of mass, momentum and energy; flow in pipes; external flow (lift and drag); boundary layers; flow measurements; and environmental fluid mechanics.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

48642 Strength of Engineering Materials
6cp
Requisite(s): 48331 Mechanics of Solids
Fields of practice: Mechanical Engineering program
Undergraduate

This subject draws on, and brings together, the knowledge and skills developed in earlier subjects such as 48620 Fundamentals of Mechanical Engineering, 60101 Chemistry and Materials Science, and 48331 Mechanics of Solids. It also prepares students for the more dedicated design subjects to come and exposes them to practical aspects of mechanical engineering design. The objectives are that students should be able to: understand, describe and use the methodology of modelling material properties and behaviour; understand and describe the fundamental differences in the behaviour of different types of materials; understand and describe how and why things fail; realise the importance of material selection in engineering design; predict, or design to avoid, failure given the material, environment and loading conditions; and use analytical skills in stress analysis and knowledge of material properties in mechanical design. Topics include: the use of stress analysis and material properties in materials selection and mechanical design; stress analysis - revise concept of normal and shear stress; combined stress; structures and m/c components; impact; material behaviour - time dependent material properties; strength; failure modes - theories, criteria for static failure (e.g. Tresca, von Mises, Mohr), fracture, creep, and fatigue; and strain energy methods.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

48650 Mechanical Design 2
6cp
Requisite(s): 48600 Mechanical Design 1 AND 48642 Strength of Engineering Materials
Fields of practice: Mechanical Engineering program
Undergraduate

This subject builds on and brings together the concepts introduced in earlier subjects, such as 48600 Mechanical Design 1, 48610 Introduction to Mechanical and Mechatronic Engineering, and 48620 Fundamentals of Mechanical Engineering, along with the technical knowledge built up until this stage of the course. It provides a link between engineering science and practice, and focuses on the technical aspects of engineering design, for instance, identifying and conducting the relevant engineering analysis and subsequently making appropriate technical level design decisions and recommendations.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

48651 Thermodynamics
6cp
Requisite(s): 33230 Mathematical Modelling 2 AND (68037 Physical Modelling OR (68042 Physical Modelling A AND 68043 Physical Modelling B))
Fields of practice: Mechanical Engineering program
Undergraduate

The objectives of this subject are to develop a fundamental understanding of applied thermodynamics in an engineering perspective, use thermodynamics effectively in the practice of engineering, lay the groundwork for subsequent studies in the fields related to energy systems and increase an awareness and emphasis on energy resources and environmental issues. Topics include thermodynamic properties of pure substances, work and heat, the first law of thermodynamics, applications to closed systems, applications to open systems, the second law of thermodynamics, irreversibility, entropy, Rankine cycle and
steam engines, refrigeration cycle, Brayton cycle and gas turbine engines, Otto cycle and spark ignition engines, and diesel cycle and compression ignition engines.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus

48660 Dynamics and Control
- 6cp
- Requisite(s): 48640 Machine Dynamics
- Fields of practice: Mechanical Engineering program
- Undergraduate
- The objectives of this subject are to: have an understanding of the behaviour of linear (or approximately linear) dynamic systems that are typically encountered in the practice of mechanical engineering; and gain an understanding of how such systems can be controlled, or have their dynamics altered, so as to achieve desired outcomes.
- Topics covered include:
  - dynamic models: component block diagram, laplace transform, undamped free and forced vibration of SDOF systems, damped free and forced vibration of SDOF systems, resonance and beats, logarithmic decrement, response under the harmonic motion of the base, coupled-tank systems, vibration of 2DOF systems, vibration isolation, vibration absorbers
  - Matlab and Simulink
  - dynamic response: system modelling diagrams, poles and zeros, effect of pole locations, first order systems, second order systems, effects of zeros and additional poles, stability
  - basic properties of feedback: the basic equations of control, control of steady-state error, PID control, pole placement method
  - the root-locus design method: root-locus of a basic feedback systems, dynamic compensation, examples
  - control system implementation and introduction to advanced control systems.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Hong Kong
- Spring semester, Hong Kong
- Summer session, Hong Kong
- Winter session, Hong Kong

48661 Heat Transfer
- 6cp
- Requisite(s): 48661 Fluid Mechanics
- Fields of practice: Mechanical Engineering program
- Undergraduate
- This subject provides a solid grounding in key concepts and fundamental principles, along with the assumptions made in their development, relating to heat transfer and to the operation of various machines associated with thermal energy (such as heat exchangers). It aims to develop expertise in applying these principles, in rational combination with the necessary empiricism, to practical engineering situations involving heat transfer and such machines, including their selection, application, performance prediction and design. The subject also reinforces an appreciation of the links between different subject areas and engineering disciplines. Topics covered include fundamentals of heat transfer covering conduction, convection and radiation, and heat exchangers.

**Typical availability**
- Autumn semester, City campus

48662 Mechanical Applications
- 6cp
- Requisite(s): 48640 Machine Dynamics AND 48642 Strength of Engineering Materials
- Fields of practice: Mechanical Engineering program
- Undergraduate
- The objectives of this subject are to teach students to: apply some of the basic concepts of rigid and deformable body mechanics learnt in previous subjects, and the more advanced concepts developed in this subject, to various mechanical applications; understand the interdependence of motion, forces, vibration and stress in mechanical applications; see how computer methods can complement a good understanding of the underlying theory when solving problems related to the previous point; and develop an aptitude in multiple-approach problem solving.
- Specific subject content varies from semester to semester as it reflects student needs and interests and style of teacher, but is likely to include: elementary spatial kinematics and the design of unconstrained mechanisms such as constant velocity joints and guidance linkages; systems of shafts and gears geometry together with associated lubrication, vibration and stress characteristics; the application of spatial dynamics to machine component motion where appropriate; problems associated with vehicle dynamics; stress analysis and methods of solid mechanics applied to various mechanical engineering applications; and modelling and computer methods including finite element analysis.

**Typical availability**
- Spring semester, City campus
- Autumn semester, Hong Kong
- Spring semester, Hong Kong
- Summer session, Hong Kong
- Winter session, Hong Kong

48663 Advanced Manufacturing
- 6cp
- Requisite(s): 48650 Mechanical Design 2 AND 48621 Manufacturing Engineering
- Fields of practice: Mechanical Engineering program
- Undergraduate
- The objectives of this subject are to: understand the design and manufacturing processing of products in various environments ranging from low volume to high volume and with various levels of capital investment in the manufacturing system. The student is introduced to the modern concepts of quality management, including Taguchi methods, after looking at process quality control and its origins. Modern metrology equipment and methods are treated in a similar manner: modern equipment and methods and their origins. The main part of the course is about the influence of the computer and computer systems on manufacturing. Firstly, students gain some experience with manufacturing in a CAD/CAM environment. Following this they investigate the viability of industrial robots in environments such as fabrication, welding and assembly. Topics such as CIM, CAPP, JIT, GT, FMS, MRP, Toyota and Kanban are introduced in a project environment.

**Typical availability**
- Autumn semester, City campus

48670 Mechanical and Mechatronic Design
- 6cp
- Requisite(s): 48650 Mechanical Design 2
- Fields of practice: Mechanical Engineering program
- Undergraduate
- This subject aims to extend students’ competence in the design of engineered systems and components, as well as familiarising them with modern design approach methodologies. While the emphasis is on realistic engineering-team/client/boss interactions, need exploration, project development and delivery, this subject draws heavily on the expertise the students have developed up until this stage of the course. Furthermore, the subject aims to enhance and polish students' capabilities in dealing with human-centric aspects of the design process.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Hong Kong
- Spring semester, Hong Kong
- Summer session, Hong Kong
- Winter session, Hong Kong
48720 Network Fundamentals
6cp
Recommended studies: some knowledge of computer networking is useful but not essential
The objectives of this subject are to introduce students to the basic concepts and terminology used in telecommunication networks and a system-level view of network operation. Topics include major players in telecommunication networks in Australia and the Asia-Pacific (operators, vendors, standard bodies, regulators, consumers, investment bankers); evolution of telecommunication networks; services and applications (voice, video, data, location-based services, multimedia, gaming, etc.); network protocols (TCP/IP, OSI); transmission and switching basics; transmission media; access networks; PSTN, internet (dial up, broadband and ISP), network security, mobile networks (2G, 2.5G, 3G, 4G), data networks (LANs and wireless LANs, WANs, SANS, PANs, enterprise networks), VoIP networks; and convergence in telecommunication networks, next generation networks (NGN), digital identity in networks.

48721 Strategic e-Business Technologies
6cp; availability: BBus students only (it cannot be undertaken by Engineering students)
The objectives of this subject are to introduce the basic concepts and terminology used in telecommunication engineering; to give basic, up-to-date, hands-on, technical skills; to familiarise students with the technology underlying the internet, telecommunications and electronic business, to allow the students to make informed decisions about technology and system security.
Topics include the following, software (applications and operating systems, make-or-buy, ERP solutions, estimating, software engineering), PCs and Office Networks analogous to digital, bandwidth, compression, codes, human factors, data communications, protocols, OSI model, the Public Switched Telephone Network, switched circuit and packet switching (T channels, ISDN, X25, Frame Relay, ATM, SONET, modems, ADSL), the internet (History, TCP/IP, WWW, Java, CGI, architectures, sockets, services, DNS, routing), wireless technologies (satellites, GSM), and security (purpose, threats, trust, authentication, encryption, SET, signatures, certificates).
The laboratory component is to install a Windows operating system on a PC, to install an internet interface card and driver; and to install and configure web browsers, servers and FTP applications.

Typical availability
Autumn semester, City campus

48730 Authentication and System Security
6cp
Requisites: 48740 Communications Networks
Fields of practice: Telecommunications Engineering program
Undergraduate
This subject has been designed as the second subject in the Telecommunications major of the engineering undergraduate program. It addresses the issue of network security. The subject is also suitable as an elective for students in other majors such as computer systems engineering and software engineering seeking an introductory subject in network security. The technical content of the subject covers conventional and public key cryptography, message integrity schemes, authentication protocols using Kerberos and X.509 certificates, network security standards at the application, transport and network layer, and protection of network resources through policies, intrusion detection, firewalls and protective software. The technical content is contextualised in a major project in which students in small groups play the role of security consultants engaged by a hypothetical organisation to make recommendations on some aspect of the security of its network. The project involves determination of stakeholder requirements and ultimately the development of a conceptual design. Three engineering themes permeate the subject. They are introduced and continually highlighted during the student’s sequence of learning experiences in the subject. The first theme is the need for a systems perspective in engineering. The second related theme is the notion of engineering as a process of solving constrained optimisation problems. The third theme is that of the need for engineers to take responsibility for their own professional development, in this subject with specific reference to the development of effective teamwork, information retrieval and project management skills.

Typical availability
Autumn semester, City campus

48740 Communications Networks
6cp
Requisites: 48720 Network Fundamentals OR 31270 Networking Essentials
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Fields of practice: Telecommunications Engineering program
Undergraduate
This subject has been designed as a second subject in the networking thread of the ICT engineering undergraduate program. On completion of this subject, students have learned the skills to systematically analyse network operations and performance, and also have the ability to appreciate approaches in designing communication and computer networks. The first half of the subject concentrates on the study of communication architecture. Lectures provide students with the necessary background in understanding operations of TCP/IP, the mostly widely implemented protocol stack in computer networks, on a layer-by-layer basis. Topics include flow control; error detection and correction; packet switching; and routing and transport protocols.
The second half of the subject concentrates on broadband switching technologies, networking design concepts and performance measures associated with integrated services networks. Topics include local area networks (LANs); wide area networks (WANs); networking devices (bridges, hubs and switches); internetworking; internet protocol; network security; distributed applications; and multimedia services. Students acquire a reasonable understanding of current standards and their role in relation to future developments.

Typical availability
Autumn semester, City campus

48750 Network Planning and Management
6cp
Requisites: 48740 Communications Networks AND 33230 Mathematical Modelling 2
Fields of practice: Telecommunications Engineering program
Undergraduate
The objectives of this subject are for students to develop competencies needed for the planning and management of networks, particularly in the areas of traffic source modelling, performance analysis, dimensioning, simulation and management.
Students acquire a foundation in: modelling of traffic, including packet based systems; dimensioning of fixed networks and mobile networks; performance analysis of networks based on queuing theory; circuit switching networks; and packet switching networks.
Topics include: traffic source modelling; Markov chain theory; network design, planning, and dimensioning; introduction to teletraffic engineering; basics of traffic system design; traffic models for loss and delay systems; network optimisation through both stochastic and deterministic methods; client and server placement; mobile network optimisation; management based on SNMP and the MIB; and reliability of networks.

Typical availability
Autumn semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
48770 Continuous Communications
6cp
Requisite(s): 48541 Signal Theory OR 48540 Signals and Systems
Fields of practice: Telecommunications Engineering program
Undergraduate
The objectives of this subject are to enable students to develop insight into the fundamentals of modulation. This includes the following topics:
- communications systems
- signals and signal space
- analysis and transmission of signals
- amplitude modulation and demodulation
- angle modulation and demodulation
- probability theory and random processes, as applied to signals.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48771 Discrete Communications
6cp
Requisite(s): 48541 Signal Theory
Fields of practice: Telecommunications Engineering program
Undergraduate
This subject aims to introduce the fundamental principles of efficient digital communication systems. Analog-to-digital conversion is introduced as a precursor to the discussions of digital data transmission modulation and digital transceiver design techniques. After completing the subject, students are able to:
- convert analog signals and process digital information for digital communication systems
- choose a digital modulation which is suited to the system requirements
- understand the techniques for multi-carrier digital communication systems
- analyse and understand linear distortive channels in digital communication systems
- choose an error detection or correction code which is suited to the system requirements, and understand the fundamentals of synchronisation in digital communication systems
- simulate a digital communication systems end-to-end (from the transmitting antenna to the receiver and display of the received data), and
- simulate the bit error rate performance of digital communication systems.

Topics include sampling of signals, digital modulation and demodulation, optimal detection, line coding and pulse shaping, digital transceivers and regenerative receivers determination, bit error rate analysis, simulation of digital transceivers, basic principles of information theory, error detection and correction coding, the power and bandwidth trade-off of digital modulation and coding types and multi-carrier systems in digital communication systems.

Typical availability
Spring semester, City campus

48780 Mobile Communications
6cp
Requisite(s): 48770 Continuous Communications
This subject aims to develop a coherent systems view of mobile communication systems, which is one of the fastest growing fields in the engineering world. It gives further contact to telecommunications theory developed in prerequisite subjects by exploring practical examples of wireless communications systems. It particularly emphasises technical and other issues that distinguish mobile systems from other systems. Technical concepts which are at the core of design, and implementation of wireless cellular mobile communication systems are presented in order to help understand, appreciate and design current and evolving systems.

Throughout the subject students are encouraged to develop broader skills in methods of design, systems engineering, simulation, technical reading, teamwork and communications as well as developing and applying technical knowledge.

Broadly, the subject attempts to cover the fundamental design concepts behind cellular mobile communications. Topics include frequency reuse, macro, micro and pico cells, hand off, co-channel and adjacent channel interference, which are at the core of providing wireless communication service to subscribers on the move using limited radio spectrum are covered. Also issues such as trunking efficiency and how trunking and interference issues between mobiles and base stations combine to affect the overall capacity of cellular systems are highlighted. Also covered is how electromagnetic wave propagation concepts in outdoor and indoor environments are linked to the design of wireless communication systems. Propagation effects such as large scale path loss, log-normal shadowing, small scale fading, time delay spread and Doppler spread, etc., is highlighted from the point of view of design and analysis. The subject also covers digital modulation concepts, bit error rate analysis of fading channels, equalisation and diversity techniques. Access techniques such as FDMA, TDMA, CDMA and SDMA are introduced with a view to demonstrate as to how the capacity of the cellular systems is impacted by multiple access techniques. Design and standardisation issues of existing and evolving systems are also introduced.

Typical availability
Spring semester, City campus

48821 Ecological Engineering
6cp
Requisite(s): 65111 Chemistry 1
Increasingly biological principles are being integrated as part of engineered systems to create innovative and effective design solutions. This subject teaches fundamental chemical, physical and biological principles which can be used to analyse data and formulate design solutions to environmental problems particularly related to water quality. The subject covers hydrology, soils, ecosystems, material balances, nutrient cycles, risk and water quality engineering. The way this knowledge is utilised by engineers for ecosystem restoration and engineered treatment systems is examined.

48840 Water Supply and Wastewater Engineering
6cp
Requisite(s): 60101 Chemistry and Materials Science OR 65111 Chemistry 1
Fields of practice: Environmental Engineering program
Undergraduate
This subject provides civil and environmental engineering students with a detailed knowledge of water pollution control objectives, the design of potable water and sewage treatment processes and sewerage and water reticulation systems, and the technologies used in the upgrading of water and wastewater treatment plants and in water reuse. At the completion of this subject, students understand public health and environmental objectives in water supply and wastewater disposal, the design concepts for drinking water and sewage treatment plants, sewerage systems and water reticulation systems, and new technologies developed to meet the new water quality and water reuse objectives. Topics include sewerage systems and water supply systems - water quality and quantity; description and design concepts for sewerage systems; design concepts for reticulation systems; sewage treatment - water pollution, statutory requirements; primary treatment; biological/secondary processes; tertiary treatment; potable water treatment - flocculation, sedimentation, filtration, ion adsorption, disinfection; new water quality standards for specific pollutants and technologies used for upgrading on water treatment processes; quality requirements for water recycling and water reuse technologies; case studies on water reclamation projects, small community and large potable water treatment plants; laboratory sessions to determine flocculation, sedimentation, and filtration performance.

Typical availability
Autumn semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
48850 Environmental Planning and Law
6cp
Requisite(s): 87 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 87 credit points of completed study in C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 87 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Business OR 87 credit points of completed study in C10067 Bachelor of Engineering OR 87 credit points of completed study in C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice OR 87 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Biotechnology OR 87 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 87 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Medical Science in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Fields of practice: Environmental Engineering program
Undergraduate

The objectives of this subject are: to introduce key environmental law relating to water, waste, energy and land use issues; to give a sound understanding of the history of planning with particular emphasis being placed on the NSW experience; to develop awareness of planning legislation in NSW and the need to engineer within the constraints of that legislation; to provide knowledge of the planning process on land use planning; to develop skills to identify and deal with legal problems confronting engineers in industry; to develop the capacity to communicate in both written and verbal form when dealing with legal matters relating to the environment and land use planning; and to equip students with the skills necessary to deal with legal issues in the absence of detailed lecture material. This helps students to know when to ask questions or seek professional legal advice and to introduce them to the operation of the Land and Environment Court of NSW. Students cover the following topics:

- Environmental planning: evolution of human settlement, NSW environmental planning legislation, urban planning and sustainability, planning the neighbourhood, environmental studies, environmental impact assessment in NSW, project control and the environment.

Tutorial sessions are scheduled twice each week to discuss environmental law and planning issues using case studies. Students have to present a 10–15 minutes discussion paper on an environmental issue of an engineering nature, which assists in developing verbal communication skills and audiovisual equipment usage skills, as well as developing interdisciplinary teamwork skills.

Typical availability
Autumn semester, City campus

48860 Pollution Control and Waste Management
6cp
Requisite(s): 48840 Water Supply and Wastewater Engineering OR 48350 Environmental and Sanitation Engineering
Fields of practice: Environmental Engineering program
Undergraduate

The main objective of this subject is to provide the opportunity to understand the principles of pollution control and waste management in modern society. The subject develops an understanding of air and noise pollution control technologies, as well as better product or process design to mitigate the problems of air and noise pollution both in the automobile industry and other manufacturing industries. It also begins to tackle the problems of solid and hazardous waste minimisation, generation, treatment and disposal. Topics include solid waste characterisation, generation and composition analysis, development of optimum collection routing networks, transfer station design, design of Engineering Bachelor of Arts sanitation facilities, and related social and environmental issues; hazardous waste generation, regulatory process, process information, toxicology, design of treatment and stabilisation methodologies, methods of disposal and related environmental issues, community perspective and education; soil contamination, chemical, biological and thermal remediation methodologies, site characterisation, planning, monitoring, containment and case studies; air pollutants and their types, sources, generation, measurements and estimations. Other topics include: control of the generation of specific air pollutants from the projects such as wastewater treatment works and waste management disposal sites. Some aspects of noise pollution and its control are also covered.

Typical availability
Autumn semester, City campus

48881 Water and Environmental Design
6cp
Requisite(s): (48362 Hydraulics and Hydrology AND 48840 Water Supply and Wastewater Engineering AND 144 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 144 credit points of completed study in C10067 Bachelor of Engineering OR 144 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Biotechnology OR 144 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 144 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 144 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 144 credit points of completed study in C10066 Bachelor of Engineering Bachelor of Medical Science OR 144 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Science OR 144 credit points of completed study in C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 87 credit points of completed study in C10077 Bachelor of Engineering Bachelor of Biotechnology OR 87 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology OR 87 credit points of completed study in C10079 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice)

This subject provides students with the opportunity to undertake an integrated investigation and design of a water or environmental engineering project. This subject is the culmination of the study in environmental and water-related engineering subjects and seeks to teach students the investigation and design skills that are expected of an engineer. Students undertake problem investigation, requirements analysis, system design and detailed design for an engineered system which addresses an environmental/water problem. The design process requires integrating technical performance with social, environmental and economic outcomes. As part of this process, students develop team skills, an ability to incorporate system-wide requirements (e.g. safety, quality, maintenance) into an engineering design, and develop an appreciation of the impact of economic, legal, management and environmental influences on the engineering design process.
48901 Professional Service Project A
6cp
This suite of subjects develops an appreciation of the service obligations and non-financial rewards associated with the award of professional status. Students participate in one or more professional service activities and thus build their understanding of the culture of engineering and the current debates surrounding it. Students are required to analyse the impact of the activity on the recipient organisation and to evaluate the competence they need to be able to perform the service in a manner consistent with the Code of Ethics. In many cases, students work with professionals from non-engineering disciplines. This increases their awareness of engineers' interdependence on other professions as well as enhancing their experience in managing group dynamics. Students gain an understanding of the role engineering plays in society and in particular the perception that the community at large has about engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48902 Professional Service Project B
6cp
This suite of subjects develops an appreciation of the service obligations and non-financial rewards associated with the award of professional status. Students participate in one or more professional service activities and thus build their understanding of the culture of engineering and the current debates surrounding it. Students are required to analyse the impact of the activity on the recipient organisation and to evaluate the competence they need to be able to perform the service in a manner consistent with the Code of Ethics. In many cases, students work with professionals from non-engineering disciplines. This increases their awareness of engineers' interdependence on other professions as well as enhancing their experience in managing group dynamics. Students gain an understanding of the role engineering plays in society and in particular the perception that the community at large has about engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48903 Professional Service Project C
4cp
This suite of subjects develops an appreciation of the service obligations and non-financial rewards associated with the award of professional status. Students participate in one or more professional service activities and thus build their understanding of the culture of engineering and the current debates surrounding it. Students are required to analyse the impact of the activity on the recipient organisation and to evaluate the competence they need to be able to perform the service in a manner consistent with the Code of Ethics. In many cases, students work with professionals from non-engineering disciplines. This increases their awareness of engineers' interdependence on other professions as well as enhancing their experience in managing group dynamics. Students gain an understanding of the role engineering plays in society and in particular the perception that the community at large has about engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

48904 Professional Service Project D
2cp
This suite of subjects develops an appreciation of the service obligations and non-financial rewards associated with the award of professional status. Students participate in one or more professional service activities and thus build their understanding of the culture of engineering and the current debates surrounding it. Students are required to analyse the impact of the activity on the recipient organisation and to evaluate the competence they need to be able to perform the service in a manner consistent with the Code of Ethics. In many cases, students work with professionals from non-engineering disciplines. This increases their awareness of engineers' interdependence on other professions as well as enhancing their experience in managing group dynamics. Students gain an understanding of the role engineering plays in society and in particular the perception that the community at large has about engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus
49003 Economic Evaluation
6cp; 3hpw; distance mode; availability: all courses (core for MEM), not available for undergraduate students
Postgraduate
This subject deals with the application of economic concepts to engineering decision-making. Main topics include: macroeconomic issues and policies; microeconomic market theory; theory of the firm; project evaluation and cost-benefit analysis; intangibles and risk.
Typical availability
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

49004 Systems Engineering for Managers
6cp; weekly; availability: all courses (core for MEM)
Postgraduate
In the multidisciplinary process of problem solving in engineering, systems engineering is seen as a unifying discipline. Drawing on contemporary scholarship and best practice, the philosophy, concepts, techniques and tools of the systems engineering process are examined in the context of engineering management, and their domain of applicability explored. The subject provides extensive opportunity for individual and group encounter with the challenges of the systems approach, and is illustrated by case studies presented by guest lecturers.
Typical availability
Autumn semester, City campus
Spring semester, City campus

49006 Risk Management in Engineering
6cp; on campus, block mode; availability: all courses
Requisites(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10064 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops students’ capability to identify, assess, improve and limit risk in the management and practice of engineering through the application of concepts and tools of risk engineering. On completion, students are able to identify hazards in an engineering project and design an appropriate risk management strategy. Topics include: semantics of risk and hazard; risk as a social construct; principles of risk management; risk engineering; integrating risk controls within the engineering process; risk perception, risk communication and the acceptability of risk; legal principles relating to engineering risks; risk identification and assessment; hierarchy of risk control; risk benefit analysis; positive risk; and quantitative and qualitative risk assessment methods.
Typical availability
Autumn semester, City campus and distance
Spring semester, City campus and distance

49013 Managing Information Technology in Engineering
6cp; distance mode and Internet support; availability: all courses
Postgraduate
The aim of this subject is to explore the influence of information technology (IT) on organisations and management and in particular engineering management. Students critically examine both past and recent IT innovations. Issues in information technology extend into groupware, computer-aided logistic support, decisions support systems, tools for systems engineering, and communications technology including the internet. Students use a computer-mediated conferencing tool on the internet to participate in group project work either on or off campus. Most of the support material such as lectures is on the internet.

49016 Technology and Innovation Management
6cp; 3hpw; availability: all courses
Requisites(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10064 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The goal of technology and innovation management is to effectively manage the invention, design, development, production, transfer and use of technology within an organisation. This subject brings together knowledge from engineering and management disciplines. Emphasis is placed on the importance of managing the performance of the entire product and process development cycle. Topics include: technological change management, assessment and evaluation of technology, technology policy development, and new product and process development. Within this framework, specific technology management tools and techniques are evaluated and applied. These include quality function deployment, design for manufacture, concurrent engineering and robust design methods.
Typical availability
Autumn semester, City campus
Spring semester, City campus

49017 Graduate Project (30cp in 1 semester)
30cp; individual supervision; availability: Master of Engineering
Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional engineering manner and is professionally documented in a comprehensive report. The aims of the graduate project are to provide an opportunity for the student to demonstrate their capacity to bring together their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies, products and methods in a new way to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated. The planning, implementation and documentation of the project are supervised by a member of academic staff from the Faculty of Engineering and Information Technology. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.
Typical availability
Autumn semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
49021 Evaluation of Infrastructure Investments
6cp; three modules, each two days; availability: all courses
Postgraduate
This subject develops the capability to appraise, analyse and evaluate energy investments within a multidisciplinary framework. Topics include: the context and rationale of project evaluation; characteristics of energy project investments; concepts and methods of financial and economic evaluation of energy investments; issues in cost-benefit evaluation; treatment of risk, intangibles, and externalities; environmental considerations in project evaluation; multi-attribute evaluation frameworks; and case studies. Emphasis is placed on achieving depth and balance in all aspects of the evaluation process, with topical case studies providing an application focus.

Typical availability
Autumn semester, City campus

49022 Energy Resources and Technology
6cp; block attendance; availability: all courses
Postgraduate
Topics covered in this subject include energy resources and reserves; concepts and principles of resource assessment; regional, national and international resource requirements and availability; resource technology evaluation; and the economic and environmental impacts of resource use.

49023 Energy and Environmental Economics
6cp; three modules, each two days; availability: all courses
Postgraduate
Topics include: energy-economy-environment interactions; the micro model (demand, supply and markets); short-run and long-run energy pricing; shadow pricing of energy; the economics of non-renewable and renewable energy resources; intemporal allocation of resources; the economics of the environment; and economic and non-economic principles for environmental valuation. Emphasis is placed on achieving depth and balance in all aspects of the valuation principles, with topical case studies providing an application focus.

49024 Energy Modelling
6cp; three modules, each two days; availability: all courses
Postgraduate
This subject covers models and modelling; macroeconomic settings of energy-economy modelling; energy balances; energy input-output analysis; energy aggregating; energy system modelling, energy demand modelling; and modelling of energy economy interactions.

Typical availability
Spring semester, City campus

49025 Methods for Energy Analysis
6cp; three modules, each two days; availability: all courses
Postgraduate
This subject covers: probability concepts; sampling and estimation; regression analysis; statistical tests; analysis of variance; simultaneous equations; time series methods; econometric models and applications; and introduction to statistical packages.

Typical availability
Autumn semester, City campus

49026 Electricity Sector Planning and Restructuring
6cp; three modules, each two days; availability: all courses
Postgraduate
Topics covered in this subject include nature of electricity planning; economic and technological dimensions of power systems; generation planning and production costing; integrated resource planning; electricity sector restructuring – rationale, models and frameworks; electricity sector privatisation; electricity sector productivity; electricity markets; selected topics on issues relating to the environment, institutional structures, renewable resources, regulation, etc. Emphasis is placed on all aspects of electricity sector planning, restructuring and policy, with topical case studies providing an application focus.

Typical availability
Autumn semester, City campus

49027 Energy Demand Analysis and Forecasting
6cp; block attendance; availability: all courses
Postgraduate
This subject looks at the theoretical and analytical concepts and tools used for the understanding of energy demand generation and evolution in relation to socioeconomic development. Students learn methods and models of energy demand projections and explore the various considerations which must be made in the design, implementation and monitoring of an energy demand management policy.

Typical availability
Spring semester, City campus

49028 Policy and Planning of Energy Conservation
6cp; block attendance; availability: all courses
Postgraduate
This subject introduces students to the rationale and context for energy conservation planning and policy; historical perspective of energy conservation; public and private sector interventions and mechanisms for rationalising the design of energy conservation policies; examples and case studies of energy conservation programs at national, sectoral and enterprise levels in developing and industrialised countries; and decision methods for program design.

Typical availability
Spring semester, City campus

49029 Environmental Policy for Energy Systems
6cp; block attendance; availability: all courses
Postgraduate
This subject introduces students to policy context; energy resource system analysis; approaches to environmental impact assessment; analysis of pollution effects and control technologies; risk analysis of energy systems; costs and benefits of environmental management; and institutional and regulatory issues.

Typical availability
Spring semester, City campus

49047 Finite Element Analysis
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The Finite Element Method (FEM) provides the theoretical basis for computer simulation and analysis of a vast spectrum of engineering problems. The method is used primarily in the field of structural mechanics, to solve stress and vibration problems. Other non-structural mechanics applications of the method include thermal-, acoustic-, diffusion-, electrostatic- and electro-magnetic problems. This subject is intended as a first subject in finite elements and extends understanding of the method and its application to problems in solid/structural mechanics. Apart from an introduction to the theory of the FEM, it develops problem formulation and modelling skills using state of the art software. Topics include: matrix analysis methods; the derivation of element stiffness matrices of bar and beam elements as well as stiffness matrices of triangular and quadrilateral elements for plane elasticity; work equivalent loads and force matrices; the concept of natural coordinates and isoparametric element formulation; selected topics on issues relating to the environment, institutional structures, renewable resources, regulation, etc. Emphasis is placed on all aspects of electricity sector planning, restructuring and policy, with topical case studies providing an application focus.

Typical availability
Spring semester, City campus

This subject is offered in odd years only; it will next be offered in 2013.
In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
**Typical availability**
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong

**49082 Special Course A (2cp)**
2cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49083 Special Course A (3cp)**
3cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49084 Special Course A (4cp)**
4cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49086 Special Course A (6cp)**
6cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49092 Special Course B (2cp)**
2cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the Director, postgraduate Coursework Programs. Approval requires demonstration by the candidate to the Director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49093 Special Course B (3cp)**
3cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49094 Special Course B (4cp)**
4cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49096 Special Course B (6cp)**
6cp; normally block attendance; availability: all courses
Postgraduate
This subject offers students maximum educational opportunity to benefit from short courses and other learning experiences available through the Faculty of Engineering and Information Technology. Enrolment for credit is approved by the director, postgraduate coursework programs. Approval requires demonstration by the candidate to the director of a special learning need or development opportunity consistent with the other requirements of the candidate's program.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**49098 Engineering Financial Control**
6cp
Postgraduate
This subject introduces students to the basics of accounting and financial transactions. The subject is practice based and the transaction section is assessed by input accounting entries into the MYOB accounting system. Financial statements are then examined in detail and the process of accounting for equity and assets is explained. Ratio, breakeven and sensitivity analyses are performed on companies' financial statements to determine how well the businesses are performing.
A budgeted project plan is prepared and costed as part of the assessment and the working capital cycle is explored. Microsoft Project is used for the project budgeting and discounted cash flow techniques are used to assess projects and investment decisions. Debt and equity from angels, venture capitalists, banks and informal investors are outlined as potential sources of funding for new projects and opportunities.

**Typical availability**

- **49099 GSM, GPRS and EDGE Technologies**
  - 6cp; block; availability: all courses
  - Requisite(s): (48750 Network Planning and Management AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
  - These requisites may not apply to students in certain courses. See access conditions.
  - Postgraduate

This subject aims to use fundamental knowledge of GSM, GPRS and EDGE cellular radio telecommunications networks to develop a detailed understanding of how certain functions and networking engineering techniques are realised in current commercial networks. Participants study the evolution, architecture, functionality and operation of cellular technologies existing in the market and those soon to be released. These include GSM (Global System for Mobile), HSCSD (High Speed Circuit Switched Data), GPRS (General Packet Radio Service), EDGE (Enhanced Data rate for GSM Evolution), and for inter-working GSM with UMTS (Universal Mobile Telecommunications System). Key aspects of GSM radio engineering, design, expansion and enhancement are explored, including services, coverage, capacity, quality, optimisation and commercial effectiveness. Key themes are designing for spectral efficiency maximisation and achieving Quality of Service KPIs. The design of a complete Radio Sub-system is progressively outlined during the tutorial exercises. A case study applies the process of dimensioning each of the radio network elements, in order to achieve targets of economy, QoS and spectral efficiency.

**Typical availability**

- **49102 Traffic and Transportation**
  - 6cp; block; availability: all courses
  - Requisite(s): (48370 Road and Transport Engineering AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
  - These requisites may not apply to students in certain courses. See access conditions.
  - Postgraduate

The objective of this subject is to provide students with the knowledge to implement traffic engineering principles in local government in accordance with current practice in NSW. Students are introduced to standards adopted by the Roads and Traffic Authority NSW and Austroads. The subject provides the basic principles of transportation planning and comprehensive traffic engineering, including technical aspects and the influence of environmental legislation and political factors.

**Typical availability**

- **49105 Water Supply and Wastewater Management**
  - 6cp; block; distance; availability: all courses
  - Postgraduate

This subject concentrates on the design, operation and maintenance of municipal wastewater treatment plants, sewerage systems and water supply systems. At the completion of the subject, students understand drinking water and sewage treatment plants, sewerage systems and water reticulation systems in terms of purpose, basic design concepts, operation and maintenance, identifying and quantifying major problems, and operating these systems to avoid or overcome problems. Subject content includes statutory requirements, constituents and quality of wastewaters, description, operation and control of treatment process, performance monitoring, sewerage and water reticulation systems, troubleshooting and problem solving.

**Typical availability**

- **49106 Road Engineering Practice**
  - 6cp; block; availability: all courses
  - Requisite(s): (48370 Road and Transport Engineering AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
  - These requisites may not apply to students in certain courses. See access conditions.
  - Postgraduate

The aim of this subject is to equip students with the ability to design, construct and maintain roads in accordance with current practice in NSW. This includes pavement design, as well as the geometric design of roads. The subject embraces the standards adopted by the Roads and Traffic Authority NSW, AUSTROADS and the Australian Road Research Board. Particular attention is paid to the requirements of the residential street network. Students also develop an understanding of current issues in road engineering, particularly quality assurance contracts, road safety needs of pedestrians and cyclists, and the use of innovative techniques in road construction and maintenance.

**Typical availability**

- **49107 Urban Stormwater Design**
  - 6cp; block; availability: all courses
  - Requisite(s): (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
  - These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
  - Postgraduate

This subject aims to teach students to design urban drainage structures such as culverts, WSUD and OSD systems. Students also learn to design property, street pipe and trunk drainage systems. A further objective is to familiarise students with methods of urban drainage design set out in recent manuals, with an emphasis on flood protection and integration with stormwater quality enhancement. The subject also provides an overview of rural design, flood estimation, erosion protection, flood mitigation and coastal engineering.

**Typical availability**

- **49108 Local Government Powers and Practice**
  - 6cp; distance; availability: all courses
  - Requisite(s): (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
  - These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
  - Postgraduate

Note: This subject is not suitable for international and/or exchange students unless they plan to practise in NSW. This subject aims to provide the local government engineer with the necessary skills to operate within the legal framework of legislative requirements and procedures governing local government in NSW; provide appropriate knowledge of the law, to operate effectively within environmental, economic, social and physical constraints; and provide the knowledge and expertise to manage the environment in a practical and effective manner. It covers the history of local government in NSW, the local government engineer as a senior officer, the Local Government Act 1993 and companion legislation, Local Government Regulations and the Roads Act 1993.
Typical availability
Autumn semester, City campus

49109 Engineered Natural Water Treatment Systems
6cp; block, distance
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Current approaches to environmental management of land and water resources increasingly focus on engineered natural systems for many types of wastewaters. They seek to enhance the natural biogeochemical environment for the treatment of hazardous contaminants. These systems include stabilisation ponds, effluent irrigation and wetlands. They are applied to stormwater management, septic effluent, and polluted surface and groundwater. The effective design of these systems requires the ability to predict the behavior of a chemical substance in a soil- or aquatic-based system. This subject examines a range of engineered natural systems and how the characteristics of various wastewaters impact upon contaminant reactivity within these engineered environmental systems. Students develop an understanding of the selection, design and operation of these systems.

Typical availability
Autumn semester, City campus and distance

49110 3G Mobile Communication Systems
6cp
Requisite(s): [49048 Wireless Networking Technologies AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)]
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject aims to use fundamental knowledge of 3G and UMTS (Universal Mobile Telecommunications System) to develop a detailed understanding of how services, network functions, radio and other network management techniques are realised in current UMTS networks. Participants study the evolution, architecture, functionality, and operation of 3G and UMTS technologies and future 4G technologies. The subject covers evolution of mobile communication, standardisation, UMTS services and applications, network architecture, WCDMA principles, radio resource management, UMTS traffic management, UMTS signalling, UMTS network planning, HSDPA and LTE.

Typical availability
Spring semester, City campus

49115 Facade Engineering
6cp
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject introduces students to the concepts and techniques involved in facade engineering and their application to the design and procurement of cladding systems. A building’s facade needs to satisfy a complex range of performance criteria, including the exclusion of adverse weather (wind and rain) and the moderating of heat, light, and sound. At the same time the facade needs to be durable and safe (structurally sound).
Students in this subject develop an understanding of the various types of facades such as masonry, concrete and glazed curtain walls, and the fundamental design principles that underpin their performance.

In addition, this subject intends to bridge the gap between consultant and contractor in order to adopt a holistic approach toward the design and procurement of a building’s facade.

The subject also aims to apply the principles learnt in structural engineering to building materials such as aluminium, glass, and structural adhesives that are commonly used in facade construction, together with the compatibility and durability issues that they must satisfy.

Typical availability
Autumn semester, City campus
Offered in even years only. This subject will next be offered in Autumn 2012.

49116 Contaminated Site and Waste Remediation
6cp; block, distance
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
There is an increasing need to remediate contaminated sites and manage hazardous wastes. It can be technically challenging due to complex biogeochemical interactions between waste, rocks, water and microbes in response to physical and chemical manipulation. There is a need for remediation practitioners to be able to conceptualise these systems and simulate the processes involved. This subject examines a range of contaminant remediation systems, important geochemical processes and contaminants. An integral part of the subject is the application of geochemical modelling codes to practical remediation problems.

Typical availability
Spring semester, City campus

49117 Floodplain Risk Management in NSW
6cp; block; availability: postgraduate students only
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject aims to teach students the main elements of floodplain risk management (FRM) as practised in New South Wales. The FRM process in NSW provides for informed decision-making in the strategic management of flood risk through an appropriate:
• understanding of flood behaviour in the catchment in its current condition and in considering the long term development of the catchment
• understanding of the variation in hazard across the floodplain and its different sources and the associated consequences for existing and future development
• assessment of options to manage flood risk to existing development through mitigation measures from a broad perspective consistent with the NSW Flood Prone Land Policy
• assessment of options to develop the floodplain in consideration of flood hazard and behaviour to ensure that development extents and conditions are consistent with the maintenance of flood behaviour, the residual flood hazard and the objectives of the policy.

The subject is aimed at a wide body of students seeking a detailed knowledge and background key FRM and associated land use planning issues in NSW. The subject is supported by the NSW Department of Environment and Climate Change and the Floodplain Management Authorities of NSW.

Typical availability
Spring semester, City campus
49118 Applied Geotechnics
6cp
Requisite(s): [48330 Soil Behaviour AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)]
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
The purpose of this subject is to provide practical awareness and advanced problem solving techniques to students who wish to widen their analysis and design skills in the field of geotechnical engineering. The subject comprises lectures, design studies, laboratory sessions, detailed design projects and individual technical presentations. The syllabus covers revision of soil mechanics, foundation design, introduction to rock mechanics, geotechnical aspects of pavements, excavation methods and supporting systems, introduction to embankment dams, geotechnical aspects of landslides, tunnelling and laboratory testing techniques and limitations.

Typical availability
Spring semester, City campus

49119 Problematic Soils and Ground Improvement Techniques
6cp
Requisite(s): [1120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering] AND 48360 Geotechnical Engineering AND 48330 Soil Behaviour]
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
The main purpose of this subject is to study the properties of problematic soils and the associated difficulties related to the construction of structures on these soils and also to introduce the design principles in ground improvement techniques. Major emphasis of this subject is on understanding the concept of failure in soil mechanics and being able to recommend suitable ground improvement methods for a range of problematic soils. Topics include classification of problematic soils, and the associated problems; design and construction methods including compaction, reinforcement, preloading, grouting, dynamic replacement, deep soil mixing, columnar, design and construction methods of slope stabilisation methods; as well as design and installation of monitoring devices to observe behaviour of the improved ground.

Typical availability
Autumn semester, City campus.

49121 Environmental Assessment and Planning
6cp; block, distance; availability: all courses [core for MEEM]
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject analyses the principles of sustainable development and the expectations it places on various aspects of human interaction with the environment. Existing and proposed measures by governments are examined in the areas of environmental legislation, environmental economics and land use planning in relation to sustainable development.

Typical availability
Spring semester, City campus

49122 Ecology and Sustainability
6cp; block, distance; availability: all courses [core for MEEM]
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The aim of this subject is for students to examine the fundamental principles of ecological systems and biodiversity, and in the context of ecological sustainable development gain an understanding of the effect of human impact on these systems. Environmental problems relating to air, water, soil and noise pollution, greenhouse and the disposal of solid and hazardous waste will be studied. Using local and regional case studies, students will learn to evaluate and develop strategies and management practices to achieve sustainable solutions for these problems and examine other areas such as ecotourism and industrial ecology.

Typical availability
Spring semester, City campus

49123 Waste and Pollution Management
6cp; block, distance; availability: all courses [core for MEEM]
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
In this subject waste minimisation and pollution control are treated in an integrated and comprehensive manner, permitting evaluation of benefits of waste minimisation to industry and of pollution reduction in the environment. Students are introduced to leading edge technologies of waste minimisation and pollution control such as membrane processes; raw materials extraction and refinement; product development including design, manufacture, use, re-use/recycling and environmental auditing of the product life cycle. An understanding of management techniques for solid/hazardous and liquid wastes is developed. Other topics comprehensively covered include institutional barriers to improving the technologies of waste technology and management practices adopted in domestic waste, the paper industry, metal plating industry, food and dairy industry, household waste and waste recycling in buildings.

Typical availability
Autumn semester, City campus

49124 Water Quality Management
6cp; block, distance; availability: all courses [core for MEEM]
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The focus of this subject is integrated catchment management. It examines water systems including natural water bodies (streams, estuaries, groundwater), and related human infrastructure (water supply, sewerage and stormwater drainage systems), and provides an assessment of the impacts and methods of monitoring pollution in these environments in relation to water quality, natural flora and fauna, aesthetics and public health. It provides students with a general knowledge of these systems, their vulnerability to pollution and degradation, and remedial measures. Particular emphasis is given to water quality in urban environments.
Typical availability
Spring semester, City campus

49125 Environmental Risk Assessment
6cp; 3hpw; block attendance; availability: all courses [core for MEEM]
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Postgraduate

The objectives of this subject are to introduce graduates working in environmental engineering, auditing or impact assessment and senior undergraduates from any faculty of the University, to the study of risk assessment in relation to environmental issues. Students gain an understanding of the concepts of risk perception, risk communication, risk acceptability and risk modification and their application to impact assessment and environmental management planning decisions. Students also learn how to undertake a risk assessment and how to critically review a risk assessment.

Typical availability
Spring semester, City campus

49126 Environmental Management of Land
6cp; block attendance; availability: all courses [core for MEEM]
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Postgraduate

This subject examines the basic concepts and principles of land resource compilation requirements for environmental planning and management. Topics include management strategies for wetland development, coastal rehabilitation, as well as for landscapes with acid sulphate soil, salinity and contamination problems. Knowledge is also gained in environmental auditing and in visual assessment used in landscape design. On completion the student should be able to interpret and critically evaluate the affects of physical and social limitations on urban and semi-urban land use change and devise sustainable development and management strategies.

Typical availability
Autumn semester, City campus

49127 On-site Water and Wastewater Treatment
6cp; block attendance; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Postgraduate

Due to increased urban sprawl, the development of on-site water and wastewater treatment systems is becoming more commonplace in unsewered parts of Australia. This subject introduces students to the different types of on-site systems available for water supply and wastewater management for single households or small complexes of units. The subject introduces students to the different technical aspects and allows them to develop skills in the design and operation of these systems. This subject will also look at the overall management of water from water supply to wastewater generation, treatment, and re-use on-site through irrigation. One aspect of the subject is to look at the different types of systems available in Australia and understand the technology that is applied. Current environmental legislation related to on-site wastewater treatment and disposal, its strengths and its shortcomings are also covered in this subject.

Typical availability
Spring semester, City campus

49128 Structural Engineering Review 1
6cp
Postgraduate
The subject description is available from UTS: Engineering.

49129 Structural Engineering Review 2
6cp
Postgraduate
The subject description is available from UTS: Engineering.

49131 Bridge Design
6cp; 2hpw block attendance; availability: all courses
Requisite(s): [48389 Computer Modelling and Design AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)]

These requisites may not apply to students in certain courses. See access conditions. Postgraduate

This subject introduces students to the fundamentals of design, maintenance and management of road bridges, using a problem-based learning approach that focuses on extensive use of examples from practice and detailed case studies. Three essential themes are used to cover the course material: overview of appropriate structural forms for bridges; load and analysis models/methods for designing bridges and quantifying structural behaviour; and management of bridge assets, including inspection and assessment techniques and maintenance and rehabilitation technologies. The subject is unique in that it not only covers design issues for Australian conditions, but also addresses the critical area of maintenance and rehabilitation using ‘state of the art’ technologies. The course material has been developed jointly by specialist bridge engineers from the Centre for Built Infrastructure Research at UTS and bridge section of the Roads and Traffic Authority NSW.

Typical availability
Spring semester, City campus

49132 Stability of Structures
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Postgraduate

This subject introduces students to the fundamentals of design, maintenance and management of road bridges, using a problem-based learning approach that focuses on extensive use of examples from practice and detailed case studies. Three essential themes are used to cover the course material: overview of appropriate structural forms for bridges; load and analysis models/methods for designing bridges and quantifying structural behaviour; and management of bridge assets, including inspection and assessment techniques and maintenance and rehabilitation technologies. The subject is unique in that it not only covers design issues for Australian conditions, but also addresses the critical area of maintenance and rehabilitation using ‘state of the art’ technologies. The course material has been developed jointly by specialist bridge engineers from the Centre for Built Infrastructure Research at UTS and bridge section of the Roads and Traffic Authority NSW.

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
bridges, in accordance with strength and serviceability limit-states. This subject introduces basic concepts and fundamental principles of timber design and structural analysis of timber structures. Recommended studies: assumed knowledge is of structural steel design to AS4100 Steel Structures for beams, columns and beam-columns and also of the fundamentals of solid mechanics and of the structural analysis of indeterminate structures.

Postgraduate

Assumed knowledge is of structural steel design to AS4100 Steel Structures for beams, columns and beam-columns. With this basis of assumed knowledge, this subject introduces students to the plastic analysis of statically indeterminate steel beams and simple frames and the consequent design requirements of AS4100. The subject also introduces students to the analysis and design of composite steel and concrete beams to AS2327 Composite Structures, of concrete slabs acting compositely with permanent steel formwork, with some reference to AS4600 Cold Formed Steel Structures and, briefly, of composite columns and composite connections. Further, there may be an introduction to structural steel design for torsion.

Typical availability

This subject is not currently offered. Students interested in this subject are advised to consult with the head of the School of Civil and Environmental Engineering.

Note(s)

The requisite information presented in this subject description covers only academic requisites. Full details of enforced rules, covering both academic and admission requisites, are available at Access_conditions and My Student Admin.

49134 Structural Dynamics and Earthquake Engineering 6cp; 3hpw or block attendance; availability: all courses

Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10064 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject introduces students to the concepts and techniques of structural dynamics and their application to the design and analysis of dynamically sensitive structures such as tall buildings, towers, chimneystacks and footbridges. Students develop: an understanding of the nature of dynamic (time varying) loads, with particular emphasis on earthquake loads; the ability to assess the response of civil engineering structures to such loads; taking into account load-structure interaction; and structural design approaches satisfying both strength and serviceability requirements.

Typical availability

Spring semester, City campus

49135 Wind Engineering 6cp; 3hpw; availability: all courses

Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10064 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject introduces basic concepts and fundamental principles in wind engineering and their application to structural design and analysis of structures, such as buildings, towers, chimney stacks and bridges, in accordance with strength and serviceability limit-states design criteria. On completion, students understand the nature of wind loads acting on buildings due to along and cross-wind actions, and be able to prevent aerodynamic instabilities such as flutter, galloping, torsional divergence and others by proper design. Wind tunnel testing techniques for determining wind-induced dynamic response of structures and cladding pressures are introduced, and the environmental effects of severe winds around buildings and other structures are studied in terms of human safety and comfort.

49136 Application of Timber in Engineering Structures 6cp; 3hpw; availability: all courses

Requisite(s): 48387 Computer Modelling and Design AND 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10064 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

This subject presents recent advances that have enhanced the role of timber as a versatile renewable resource with a wide range of applications in engineered structures. It familiarises students with the structural behaviour of timber and timber-based manufactured products to facilitate the choice of materials, design, construction and maintenance procedures to produce cost-effective, durable and aesthetically pleasing structures. Quality control and reliability issues form an important focus. Particular requirements of residential large span industrial structures (including connection design), and multi-storey buildings and bridges and the use of the limit-states version of AS1720 are addressed.

Typical availability

Spring semester, City campus

49143 Civil Engineering Review 1 6cp

Postgraduate

The subject description is available from UTS: Engineering.

49144 Civil Engineering Review 2 6cp

The subject description is available from UTS: Engineering.

49147 Graduate Project 30cp (Part 1 of 3) (6cp + 12cp + 12cp) 6cp; individual supervision; availability: Master of Engineering Postgraduate

A graduate project is a significant body of engineering work that is conducted in a professional manner and documented in a comprehensive report. It provides an opportunity for the student to demonstrate their capacity to bring together their advanced skills and knowledge gained as part of their coursework, and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies, products and methods in a new way to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated.

The planning, implementation and documentation of the project are supervised by a member of UTS: Engineering academic staff. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability

Spring semester, City campus
49148 Graduate Project 30cp (Part 2 of 3) (6cp + 12cp + 12cp)
12cp; individual supervision; availability: Master of Engineering Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements.

The project may involve the development of a new technology, product and/or process, the application of existing technologies, products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated.

The planning, implementation and documentation of the project are supervised by a member of UTS: Engineering academic staff. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49149 Graduate Project 30cp (Part 3 of 3) (6cp + 12cp + 12cp)
12cp; individual supervision; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements.

The project may involve the development of a new technology, product and/or process, the application of existing technologies, products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated.

The planning, implementation and documentation of the project are supervised by a member of UTS: Engineering academic staff. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49150 Prestressed Concrete Design
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops advanced engineering knowledge and capabilities pertaining to the specification, production, properties, testing and application of concrete as a construction material. Mini individual projects focusing on topics related to the subject content will form part of the learning process.
Topics include concrete fundamentals, concrete production and quality control, environmental concrete, deformation and cracking of concrete, testing of concrete and special concrete.

Typical availability
Spring semester, City campus
This subject is offered in odd years only; it will next be offered in 2013.

49151 Concrete Technology and Practice
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops advanced engineering knowledge and capabilities pertaining to the specification, production, properties, testing and application of concrete as a construction material. Mini individual projects focusing on topics related to the subject content will form part of the learning process.
Topics include concrete fundamentals, concrete production and quality control, environmental concrete, deformation and cracking of concrete, testing of concrete and special concrete.

Typical availability
Spring semester, City campus
This subject is offered in odd years only; it will next be offered in 2013.

49152 Rehabilitation of Concrete Structures
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides understanding of the following: damages and the causes for damages in reinforced concrete structures; methods for condition monitoring testing and interpretation; repair materials selection and repair techniques; methods of protection and maintenance; specification for durable concrete structures; traditional and modern processes for strengthening of damaged and undamaged structures; and life-cycle prediction. An individual project forms the essential component of this subject.
Typical availability
Autumn semester, City campus

49153 Graduate Project 30cp (Part 1 of 2) (2 x 15cp)
15cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49154 Graduate Project 30cp (Part 2 of 2) (2 x 15cp)
15cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49155 Graduate Project 30cp (Part 1 of 3) (3 x 10cp)
10cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49156 Graduate Project 30cp (Part 2 of 3) (3 x 10cp)
10cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49157 Graduate Project 30cp (Part 3 of 3) (3 x 10cp)
10cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49183 Graduate Project 18cp (Part 1 of 2) (2 x 9cp)
9cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus

49184 Graduate Project 18cp (Part 2 of 2) (2 x 9cp)
9cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours) Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
49184 Graduate Project 18cp (Part 2 of 2) (2 x 9cp)
9cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49187 Graduate Project 24cp (Part 1 of 2) (2 x 12cp)
12cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49188 Graduate Project 24cp (Part 2 of 2) (2 x 12cp)
12cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49189 Graduate Project 18cp (Part 1 of 3) (3 x 6cp)
6cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49190 Graduate Project 18cp (Part 2 of 3) (3 x 6cp)
6cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49193 Graduate Project 18cp (Part 3 of 3) (3 x 6cp)
6cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies (Honours)
Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus
4912 Graduate Project 24cp (Part 1 of 3) [3 x 8cp]
8cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies [Honours] Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

4919 Graduate Project 24cp (Part 2 of 3) [3 x 8cp]
8cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies [Honours] Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

4914 Graduate Project 24cp (Part 3 of 3) [3 x 8cp]
8cp; individual supervision over one semester; availability: Master of Engineering, Master of Engineering Studies [Honours] Postgraduate
The project is a course requirement taken over one or two semesters or, in exceptional circumstances, three. It is undertaken on an individual basis, except in special circumstances approved in advance by the Faculty Board in Engineering, and provides opportunity for the integration and application of advanced skills and knowledge gained in part through other subjects taken during the course. The depth and extent of the project varies with credit-point requirements. These are set on the basis of an agreed project plan submitted by the student to the supervisor, and approved by the Director, Postgraduate Coursework Programs. The project may involve: the development of new technology (hardware and/or software); the application of technology; research addressing a significant technical or engineering management issue or in special circumstances; and a critical review in the area of the student’s concentration, describing key contributions in the field covered by the project work undertaken, results achieved and a discussion of their significance and implications.

Typical availability
Autumn semester, City campus
Spring semester, City campus

4915 Graduate Project 18cp (Part 1 of 2) [6cp + 12cp]
6cp; individual supervision; availability: Master of Engineering Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies, products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated. The planning, implementation and documentation of the project are supervised and assessed by the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability
Autumn semester, City campus
Spring semester, City campus

4916 Graduate Project 18cp (Part 2 of 2) [6cp + 12cp]
12cp; individual supervision; availability: Master of Engineering Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies, products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a ‘value-added’ component that the student has originated. The planning, implementation and documentation of the project are supervised and assessed by the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability
Autumn semester, City campus
Spring semester, City campus

4917 Graduate Project 24cp (Part 1 of 2) [9cp + 15cp]
9cp; individual supervision; availability: Master of Engineering by coursework Postgraduate
A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies,
products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a 'value-added' component that the student has originated.

The planning, implementation and documentation of the project are supervised by a member of UTS: Engineering academic staff. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

49198 Graduate Project 24cp (Part 2 of 2) (9cp + 15cp)
15cp; individual supervision; availability: Master of Engineering Postgraduate

A graduate project is a significant body of engineering work that is conducted in a professional manner and is documented in a comprehensive report. It provides an opportunity for students to demonstrate their advanced skills and knowledge that have been gained as part of their coursework and apply these to a real-world engineering problem. The depth and extent of the project can vary with credit point requirements. The project may involve the development of a new technology, product and/or process, or the application of existing technologies, products and methods in a new way, to solve a problem. In certain cases it may be appropriate to undertake a critical review of a method, ideas, a technology or combinations of these. In all cases it is vital that the project can demonstrate a 'value-added' component that the student has originated.

The planning, implementation and documentation of the project are supervised by a member of academic staff from the Faculty of Engineering. The scope of the work, the deliverables for assessment and the assessment criteria are negotiated between the student and the academic supervisor and documented in a learning contract that is signed by the student and supervisor(s) (and approved by the director of postgraduate coursework programs). Industry-based projects are highly encouraged and an additional industrial supervisor may be involved. The responsibility of finding a suitable project topic and an academic supervisor rests with the student.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49201 Integrated Services Networks
6cp; 3hpw; availability: all courses
Requisite(s): [48740 Communications Networks AND 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]] These requisites may not apply to students in certain courses. See access conditions.

Recommended studies: familiarity with TCP/IP and general networking concepts

Postgraduate

This subject gives students a thorough understanding of the fundamental concepts of telecommunication networks designed to carry multiple classes of traffic simultaneously, with the focus being on the provision of services for carrier-class networks. Design and analysis techniques are studied, as well as particular technologies such as ISDN, ATM, SONET, SDH, HFC, ADSL, FITC, FTTH, PON, GigE, MPLS and IP-VPNs, with the emphasis being on IP/MPLS infrastructures and services.

Typical availability
Spring semester, City campus

49202 Communication Protocols
6cp; 3hpw; availability: all courses
Requisite[s]: [48740 Communications Networks AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]]

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

Students completing this subject have a good understanding of the theory of communication protocols, its application to popular protocols, in particular TCP/IP, and in the analysis of performance and troubleshooting protocol issues in large carrier-grade networks. A significant laboratory component allows students to gain deeper insights into the theory through the use of the Wireshark packet sniffing application. The Alcatel-Lucent course from the service router certification program (www.alcatel-lucent.com / src) 3FL50632AAAAZZZZZA (called scalable IP networks) has been integrated into this subject and allows students (together with an optional two-day short course and external exam) to gain the Networking Routing Specialist 1 (NRS1) industry certification.

Study of an additional three UTS subjects (49201, 42902, 42903), another two-day short course, three external exams and one lab exam allows students to gain the NRS2 industry certification.

Typical availability
Autumn semester, City campus

49203 Telecommunications Signal Processing
6cp; 3hpw; distance; availability: Telecommunications major only

Requisite[s]: [48770 Continuous Communications AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]]

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

This subject focuses on one aspect of telecommunications signal processing: source coding of images and audio. Incorporated in this main topic are characterisation of random signals using autocorrelation function and power spectral density, optimal linear prediction of signals (including Wiener filtering), quantisation of signals using pulse coding modulation, and differential pulse code modulation, Linear transforms (Discrete Fourier Transform, Discrete Cosine Transform, Karhunen-Loeve Transform), sub-band coding transforms and lossless compression. These topics are brought together with an in-depth examination of JPEG coding of images. Finally, the implementation of various other compression methods, including MPEG-2, MPEG-4, MPEG-audio and various techniques of speech coding, is discussed.

Typical availability
Autumn semester, City campus

49205 Transmission Systems
6cp; 3hpw; availability: all courses
Requisite[s]: [48750 Network Planning and Management AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering]]

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

This subject aims to give students a thorough understanding of the physical layer of modern telecommunication systems. This includes systems that transmit through wires, free space (both terrestrial and satellite systems), coaxial cables and optic fibres. The subject focuses on current technologies such as Ethernet, broadband access technologies, passive optical networks, and to some extent, cellular wireless systems (although these are covered in much more detail in other subjects).

Typical availability
Autumn semester, City campus
49215 Telecommunications Industry Management

6cp; 3hpw; availability: all courses
Requisite(s): (48750 Network Planning and Management AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate

The subject provides an understanding of commercial issues with particular reference to the global telecommunications industry. It is the subject objective to help engineers in their working careers to participate in business discussions within larger organisations and to assume a wider managerial and organisation role. In smaller enterprises or in individual engineering projects, financial and commercial knowledge will allow engineers to gauge the economic and marketing viability of a technical undertaking. The subject covers the socioeconomic environment and commercial and managerial aspects of a telecommunications enterprise. Financial considerations of the telecommunications sector and of interconnect issues are discussed.

Typical availability
Spring semester, City campus

49223 Satellite Communication Systems

6cp; availability: Telecommunications Engineering program only
Requisite(s): (48740 Communications Networks AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate

This subject focuses on satellite and earth station design principles including geostationary, medium earth orbit, and low earth orbit communication systems. Topics include an introduction to communication satellites, tracking, satellite system architecture, and design and performance trade-off issues.

Typical availability
Spring semester, City campus

49225 Software Project Management

6cp; 3hpw or block attendance or part-time; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: 49265 Software Technologies
Postgraduate

This subject aims to present and develop the confidence and software project management skills required to become effective project team leaders and potential project managers. The course covers such concepts as team constitution, business aspects, technical organisations charts and cost estimates, scheduling and monitoring, and maintenance. The course proposes an analysis of existing software project management tools and groupware technologies. Apart from the theoretical presentations, much time is given to participants reviewing their past experience and doing illustrative exercises.

Typical availability
Spring semester, City campus

49227 Wireless Sensor Networks

6cp
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. See access conditions.
Postgraduate

Wireless sensor networks are distributed systems, in which autonomous devices, sometimes called Motes, collect environmental data (such as location, speed, temperature, humidity and sound level) or, more recently, medical data (such as heart rate, blood oxygen level and pulse rate). The data is collected across the network, aggregated and fed into business applications. Sensor networks are an enabler for very different applications, including environmental monitoring, agricultural monitoring, medical monitoring, habitat monitoring and military surveillance.

49238 Telecommunications Networks Management

6cp; 3hpw; availability: Telecommunications Engineering program only
Requisite(s): (48740 Communications Networks AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering))
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate

This subject is designed for telecommunications engineers working with telecommunications carriers and suppliers of hardware and software infrastructure that supports the provision of telecommunications services to clients. It begins with an historical overview of the evolution of telecommunications networks with particular emphasis on the deregulated environment that has been the characteristic of the last decade. The role of standards making bodies to ensure inter-operability is highlighted. The bulk of the subject examines the technical details of particular standards such as SNMP, TMN and CORBA. The subject concludes with an examination of future challenges associated with the operation of large scale distributed systems and a look at current vendor solutions.

Typical availability
Spring semester, City campus

49247 Object-oriented Technology

6cp; 3hpw
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject utilises Java Language and aims to equip students with techniques and knowledge of methods of building small to large software systems using an object-oriented focus, based on standards, common industry practices and formal methods. OOT&J employs object orientation from requirements analysis, software design (high and low level) represented in standard notation as employed by UML, then by using automatic techniques as employed by modelling systems, such as Rational Rose, into software classes, methods and data structures. All this is taught independently of any object-oriented (OO) software language. From this beginning, the subject then has three basic streams: the teaching and practice in an OO software language - the Java Language; various methods in data structuring using an OO database system and the definition and use of software class libraries (for the Java language).
49249 Telecommunications Engineering Review
6cp
Postgraduate
The subject description is available from UTS: Engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49254 Advanced Soil Mechanics and Foundation Design
6cp
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering] AND 48360 Geotechnical Engineering] These requisites may not apply to students in certain courses. See access conditions.
The main purpose of this subject is to study the latest theoretical and experimental approaches for solving problems in the broad area of soil mechanics including stress-strain analysis and consolidation theory as well as design of shallow and deep foundations under combined vertical and horizontal loads. This subject covers many interesting issues including: critical state soil mechanics, soil plasticity, unsaturated soil mechanics, soil dynamics and earthquake geotechnics, elastic and visco-plastic deformation of footings, pile group and piled raft design, pile driving test and design and construction of caissons.

Typical availability
Spring semester, City campus

49255 Catchment Modelling
6cp
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering These requisites may not apply to students in certain courses. See access conditions.
This subject is an introduction to the concepts and reductionist approach involved in the modelling of catchment processes influencing the quantity and quality of surface runoff from a catchment. Also introduced are the different forms of models, how these models are combined to provide a catchment modelling system, and implementation of catchment modelling systems inclusive of the calibration and validation of the system. Included in this discussion is an introduction to the processes influencing the generation and movement of surface runoff and pollutant constituents, and the routing of these flows and constituents along the channels and rivers in a catchment drainage network. Finally, the information and data required for operation of these modelling systems and sources of this information are also discussed.

Typical availability
Spring semester, City campus

49256 Flood Estimation
6cp
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
The first part of the subject provides an introduction to and background on design flood estimation. Following on from this is a discussion of the frequency analysis of hydrological data (inclusive of climatic and flow data). Some of the more popular statistical models using flood frequency analysis are presented together with their application. Finally, techniques for flood flow estimation in the absence of historical data is presented; these techniques include aspects related to design rainfall data; regional flood methods; and estimation of extremes.

Typical availability
Autumn semester, City campus

49257 Geographic Information Systems
6cp
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering. These requisites may not apply to students in certain courses. See access conditions.
This subject introduces students to the use and potential of geographic information systems (GIS) mostly in engineering projects. The lectures cover general concepts of GIS and introduce the material of the exercises that are designed to provide hands-on experience using the ArcGIS software package. The subject also covers data acquisition using mobile GIS and GPS for the purpose of site selection, site mapping, data processing and analysis. In addition, principles of environmental and spatial modelling are discussed and illustrated by case studies including water balance modelling, groundwater modelling and digital terrain modelling.

Typical availability
Autumn semester, City campus

49258 Pavement Analysis and Design
6cp
Requisite(s): [120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering] AND 48330 Soil Behaviour] These requisites may not apply to students in certain courses. See access conditions.
Solid knowledge of and ability to analyse and design different types of pavements together with their material characterisation, construction aspects, maintenance and management are considered necessary for those who would like to work in the field of geotechnical engineering. The syllabus covers: an introduction to basic types of pavements (bituminous, concrete and interlocking concrete pavers); stress and strain analysis of rigid and flexible pavements; pavement materials; drainage design; design of rigid and flexible pavements; pavement maintenance and management systems; and also pavement construction techniques and limitations.

Typical availability
Spring semester, City campus

49261 Biomedical Instrumentation
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers general concepts applicable to the design of all medical instrumentation systems, the measurement of biopotentials and critical-care analyses for diagnostic purposes, and the design of biomedical devices for therapeutic purposes. The subject includes three modules covering sensors and amplifiers, vital sign monitoring for diagnostic purposes, and physiological intervention/closed-loop control.

Typical availability
Spring semester, City campus
49262 Web Technologies
6cp; 3hpw
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: 49265 Software Technologies
Postgraduate
This subject covers current and future web technologies and the design, development and management of web-based systems. The following material is covered: information concepts; web development processes; web system design models and methods; web modelling frameworks; web system architectures; web system quality; web evaluation; scoping of web projects; development risks; social issues; web content and advanced standards; Web 2.0; social networking; social bookmarking; web programming languages; frameworks; mobile commerce; location-based services; cloud computing; AJAX technologies; scalable vector graphics (SVG); XML/HTTPRequest; document-centric approaches; and remote scripting.
Typical availability
Autumn semester, City campus
Spring semester, City campus
49263 Software Analysis and Design
6cp; 3hpw
Postgraduate
The aim of this subject is to introduce the issues and basic principles of software requirements elicitation, analysis and documentation, software design methods, implementation, including patterns and architectural frameworks. The objectives are to develop a requirements and a design framework into which more detailed material regarding specific aspects of requirements and design techniques and issues fit, with focus on object-orientated methodologies. Issues related to high-level design, low-level design, software design patterns with emphasis on software development processes, process models development paradigms, development methodologies, and management of these activities are included.
Typical availability
Spring semester, City campus
49274 Advanced Robotics
6cp; 3hpw; availability: all courses
Requisite(s): 1120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering OR 120 credit points of completed study in C10062 Bachelor of Engineering Bachelor of Arts in International Studies Diploma in Engineering Practice OR 120 credit points of completed study in C10063 Bachelor of Engineering Bachelor of Arts in International Studies OR 120 credit points of completed study in C10065 Bachelor of Engineering Bachelor of Business OR 120 credit points of completed study in C10068 Bachelor of Engineering Bachelor of Business Diploma in Engineering Practice OR 120 credit points of completed study in C10073 Bachelor of Engineering Bachelor of Science OR 120 credit points of completed study in C10074 Bachelor of Engineering Bachelor of Science Diploma in Engineering Practice OR 120 credit points of completed study in C10075 Bachelor of Engineering Bachelor of Medical Science OR 120 credit points of completed study in C10076 Bachelor of Engineering Bachelor of Medical Science Diploma in Engineering Practice OR 120 credit points of completed study in C10077 Bachelor of Engineering Bachelor of Biotechnology OR 120 credit points of completed study in C10078 Bachelor of Engineering Bachelor of Biotechnology Diploma in Engineering Practice AND (48430 Embeddec OR 48623 Mechatronics 2) AND 48531 Electromechanical Automation
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject presents a broad overview of the technologies associated with mobile and industrial robots. Major topics covered are sensing, mapping, navigation and control of mobile robots and kinematics and control of industrial robots. The subject consists of a series of lectures on robot fundamentals and case studies on practical robot systems. Material covered in lectures is illustrated through laboratory assignments. The objective of the course is to provide students with the essential skills necessary to be able to develop robotic systems for practical applications.
Typical availability
Spring semester, City campus
49275 Neural Networks and Fuzzy Logic
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The principal objective of this subject is to introduce students to neural networks and fuzzy theory from an engineering perspective. In the identification and control of dynamic systems, neural networks and fuzzy systems can be implemented as model-free estimators and/or controllers. As trainable dynamic systems, these intelligent control systems can learn from experience with numerical and linguistic sample data.
Typical availability
Autumn semester, City campus
49285 Emergency Management
6cp; 3hpw
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject aims to teach students the main elements of emergency management for natural disasters and, to a lesser degree, terrorist attack. Students gain an understanding of the principles involved in emergency management, their application and interaction with the disaster recovery process of an affected community after a natural disaster or terrorist attack. The subject also provides insight into planning issues deployed to minimise disaster incidents. Areas of speciality within the emergency management guidelines such as floods, bushfires, etc., are covered and tailored in each course to the majority of students' working backgrounds. A practical demonstration of emergency exercise planning relating to a building collapse is also provided.
49286 Vehicle Design
6cp
Requisite(s): 48640 Machine Dynamics AND 48642 Strength of Engineering Materials AND 48650 Mechanical Design 2
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
For subject description, contact UTS: Engineering.
49306 Quality and Operations Management Systems
6cp; 3hpw; on campus, distance [distance mode is not suitable for international students]; availability: all courses
Postgraduate
This subject helps students understand how to design, develop and implement operational management systems including the quality, environmental, safety, and risk management systems and how to achieve certification of the operational management systems according to the Australian and International Standards (AS/NZS and ISO). The subject develops an understanding of the means of defining the structure of operational management systems in manufacturing and service organisations, determining what resources are needed to complete the documentation and the evaluation of operational management systems. It also highlights the use of an effective operational management system for continuous quality improvement.

Students with limited work experience and knowledge of these systems may find the study of AS/NZS and ISO standards somewhat challenging. Thus, although this subject is available in distance study mode, it is highly recommended that these students enrol in the on campus mode and regularly attend the lectures where standards and other study materials are thoroughly discussed and studied in a team learning environment (group class exercises).

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

49307 Internal Combustion Engines
6cp; 3hpw; availability: all courses
Requisite(s): 18651 Thermodynamics, AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject emphasises solutions to environmental and energy needs related to internal combustion engines. It aims to develop an understanding of the applications of IC engines and their development and utilisation. It introduces a pragmatic engineering approach to the field of combustion engines and provides opportunities to students to work on projects related to environmental protection, transportation, electricity generation and other areas.

49309 Quality Planning and Analysis
6cp; 3hpw; on campus, distance [distance mode is not suitable for international students]; availability: all courses
Postgraduate
Quality is one of the main success factors for organisations, whether they operate in manufacturing or service and transactional sectors. A sound quality management system, based on modern and up-to-date quality planning and analysis tools and techniques, reduces rejects, warranty claims and the need for costly rework. It helps to preserve customer goodwill and builds a brand loyalty based on objective criteria rather than illusions.

Topics covered in this subject include:
- quality and its modern definition
- analysis of customer needs and customer satisfaction
- integrating quality into design of products and services
- managing supplier relations and quality of supplies
- monitoring and statistical analysis of process quality, and
- continuous quality improvement methods and programs.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus
Autumn semester, Hong Kong
Spring semester, Hong Kong
Summer session, Hong Kong
Winter session, Hong Kong

49312 Advanced Flow Modelling
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
Computational fluid dynamics (CFD) is a cornerstone of modern engineering and a technology which is regarded as crucial to the success of the major economies. Along with more traditional modelling techniques, this subject provides exposure to the numerical methods in CFD computer codes and experience in the practical application of commercial CFD packages. Importantly, it develops in students skill in the evaluation of the solution integrity. The subject culminates in a major project of the students' own choosing. On completion, students should have proficiency to undertake leadership roles in this exciting new field across the entire engineering spectrum and, in particular, in the mechanical, aeronautical, civil and environmental context. The subject has particular relevance to the design of vehicles, buildings, structures, engines, turbomachinery, manufacturing processes, heat transfer, combustion behaviour, pollutant dispersal, weather patterns, ocean currents and biomedical phenomena.

49316 Materials Handling
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The materials handling industry is very broad, covering almost all industries including mining, mineral processing, agricultural production, food processing, power production, chemical processing, manufacturing, packaging, pharmaceutical production and many others. Since the industrial revolution, people have made increasing use of mechanical methods of handling materials. This has been to such an extent that in the Western world almost everything, including food, raw materials, building materials and finished products, has probably been mechanically handled many times before it reaches the consumer.

This subject covers the main systems and methods of mechanical handling of materials, both bulk solids handling and discrete handling of products and goods.

Topics include: screw, belt and bucket conveyors and elevators; pneumatic and hydraulic conveying of bulk solids; storage systems; and feeding, sampling and weighing of materials and systems for handling artefacts, factory products and packaged goods.

**Typical availability**
Autumn semester, City campus

49321 Energy Conversion
6cp; 3hpw
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Topics for the subject include three kinds of conversion systems: renewable (direct and indirect solar, wind, hydro, biomass and tidal), alternative (hydrogen and methanol) and non-renewable (coal, petroleum and natural gas) systems. Aspects to be covered include technological (thermal design concepts), economic (cost and efficiency) and environmental (climate changes, greenhouse effects, pollution and life cycle) analysis of energy conversion systems.
From an Australian perspective, the subject considers future developments for energy supply, using solar energy, wind turbines, water turbines, steam turbines, gas turbines, internal combustion engines and fuel cells relevant to social and environmental criteria.

**Typical availability**
Autumn semester, City campus

### 49322 Airconditioning

6cp; 3hpw; availability: all courses  
Requisites: [48651 Thermodynamics AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)]  
These requisites may not apply to students in certain courses. See access conditions.

**Postgraduate**

Airconditioning systems are required by modern society and promoted by high technology to be functional, well-controlled, energy-efficient and environmentally friendly, in maintaining human comfort and health as well as industrial productivity. The objectives of this subject are: to advance student understanding of refrigeration and airconditioning systems; to develop basic skills for carrying out the design and construction of airconditioning for buildings; and to enhance knowledge of energy conservation and management as applicable to airconditioning systems.  
Topics include principles of thermodynamics and heat transfer, airconditioning systems and components, design criteria and standards, psychometry and airconditioning processing, refrigeration, load estimation, computer software for load estimation, duct and pipe design, control system, noise and pollution.

**Typical availability**
Autumn semester, City campus

### 49323 Vibration Analysis

6cp; 3hpw; availability: all courses  
Requisites: [1120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering] AND 48660 Dynamics and Control  
These requisites may not apply to students in certain courses. See access conditions.

Recommended studies: 48660 Dynamics and Control; 48642 Strength of Engineering Materials  
**Postgraduate**

This subject extends students' understanding of vibration theory and its application to problems encountered in mechanical and structural engineering. It focuses on learning and practising the techniques and skills most frequently used in engineering practice. After a brief revision of basic vibration theory for single-degree-of-freedom systems, the subject moves on to multiple-degree-of-freedom systems, modal analysis, torsional vibration, approximation and numerical methods for transverse vibration including influence coefficient methods, transfer matrix method and finite element methods. Applications include vibration reduction by passive and active means, design of vehicle suspension systems, experimental modal analysis, rotor dynamics and spin stability and analysis.

**Typical availability**
Autumn semester, City campus

### 49325 Computer-aided Mechanical Design

6cp; 3 x 1.5 days (block mode); availability: all courses  
Requisites: 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering  
These requisites may not apply to students in certain courses.

**Postgraduate**

This subject extends the development of students' design skills. Students use computer-aided methods to complement and enhance the analytical and theoretical skills and knowledge obtained in undergraduate subjects and in practice. Mechanical system simulation software is used for designing mechanical systems and controls, and to introduce virtual prototyping. A finite element analysis program is used for analysing stresses in mechanical components. Although commercially available software is used, students are not simply trained in the use of that particular program. Rather, the objective of the subject is that students understand the general approach to computer-aided engineering and the importance of having a sound knowledge of the fundamental mechanics.

**Typical availability**
Spring semester, City campus

### 49328 Turbomachines

6cp; 3hpw; availability: all courses  
Requisites: 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering  
These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

**Postgraduate**

Turbomachines like pumps, fans, turbines and compressors constitute a large class of fluid-moving and energy-transfer machines which are found virtually everywhere in modern societies. This subject aims to develop competence in the analysis and design of these machines and the systems of which they are parts. Key concepts and fundamental principles underlying their operation and design are covered. Factors pertaining to their selection and performance prediction are treated.

**Typical availability**
Spring semester, City campus

### 49329 Control of Mechatronic Systems

6cp  
Requisites: [48660 Dynamics and Control AND (120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)]  
These requisites may not apply to students in certain courses. See access conditions.

The objectives of this subject are to develop students' skill in understanding fundamental principles in the analysis and control of mechatronic systems, familiarise students with different advanced control techniques and teach students to be able to apply computer-based tools for practical control system design applications. Topics include state-space modelling of linear and nonlinear systems, stability, controllability and observability, linear quadratic control, observer design, H-infinity control, model predictive control, neural network control and fuzzy logic control. Case studies of engineering applications are also covered.

**Typical availability**
Spring semester, City campus
**49330 Sensors and Signal Processing**

6cp
Requisite(s): I48623 Mechatronics 2 AND I120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering)

These requisites may not apply to students in certain courses. See access conditions.

The objectives of this subject are to develop students’ theoretical and practical understanding on active and passive sensing, sensor selection, evaluation, modelling, interfacing, signal processing, imaging and image processing. Topics include modulation techniques, filtering and convolution, frequency domain analysis, visual imaging and image processing, infrared imaging, passive microwave imaging, time of flight (TOF) measurement, radio tags and transponders, range tacking, doppler measurement and phase measurement. Some advanced topics such as probability of detection, angle measurement and tracking, frequency modulation, wide aperture methods, Synthetic Aperture Methods (SAR) and 3D imaging are also included.

**Typical availability**
Autumn semester, City campus

**49655 Integrated Logistic Support**

6cp; block (typically 2 x 2-day blocks)
Postgraduate

Effectiveness of engineered systems is often judged by the extent to which they fulfil their intended purpose. In order for any engineered system to fulfill its purpose in a sustained manner, the system itself must be sustained and supported. This role invariable is assigned to a 'support system'. This means that this support system must be envisaged, created and used with just as much care, thought and rigour as the system it supports. Integrated Logistics Support (ILS) is a key discipline that allows dealing with this requirement when developing, using and managing a support system. It allows the highlighting of the factors that are crucial to mission success at an early stage, using a life-cycle-based approach, and ensures that these factors are appropriately encapsulated in any system acquisition and operation.

This subject provides students with an introduction to ILS. It uses concepts from systems thinking and engineering to contextualise ILS and its importance in systems development, management and support. Students are encouraged to consider the applicability of concepts and techniques used to support various systems and their value in dealing with complexity.

**49678 Reliability Availability and Maintainability**

6cp; 2 x 2-day blocks; availability: postgraduate students only
Postgraduate

Effectiveness of engineered systems is often judged by the extent to which they fulfil their intended purpose. For this to happen a system must be available when required and be able to be used reliably, consistent with operational needs. This subject explores the concepts of Reliability, Availability and Maintainability (RAM), and the relationships between them. RAM directly affect the effectiveness of a system.

The approach taken to understanding the concepts include a treatment of each of the factors separately, together with a consideration of the relationships between them, so that a systemic view of RAM is obtained. Students are encouraged to consider the applicability of concepts and techniques used to their own experience in system acquisition and support.

**Typical availability**
Spring semester, City campus

**49680 Value Chain Engineering Systems**

6cp
Postgraduate

Value chains have become the central feature of operations management in applying engineering systems to commercial and industrial processes in the modern economy. The emphasis in this subject is on the action 'to engineer' through holistically drawing upon the full range of sciences from engineering, information technology and service sciences, management and operations strategy. The goal is to engineer value chains for productivity, quality, performance, compliance, growth, risk-sharing and learning improvement.

**49701 Gas Sector Planning**

6cp; block attendance; availability: all courses
Postgraduate

This subject aims to develop an understanding of the nature, characteristics and methods of gas sector planning. Topics include: nature of gas sector planning; planning perspectives; planning concepts and methods; economic and technological dimensions of gas sector planning and operation; institutional frameworks of gas distribution systems; gas distribution network design; construction of gas distribution systems; network operational practices and procedures; maintenance and safety issues; management of gas distribution networks; marketing issues and technological trends. Emphasis is placed on achieving depth and balance in all aspects of gas sector planning and policy, with topical case studies providing an application focus.

**49702 Gas Distribution Technology and Management**

6cp; block attendance; availability: all courses
Postgraduate

This subject aims to introduce the principles, concepts and methods of designing, operating and managing gas distribution systems with due regard for security, safety and other related aspects. Topics include general overview of gas distribution; typical features of gas distribution systems; gas distribution technologies; gas distribution network design; construction of gas distribution systems; network operational practices and procedures; maintenance and safety issues; management of gas distribution networks; marketing issues and technological trends. Emphasis is placed on achieving depth and balance in all aspects of the design and development of gas distribution networks, with topical case studies providing an application focus.

**49703 Selected Topics (Energy Pricing)**

6cp; block attendance; availability: consent of subject coordinator required
Postgraduate

This subject aims to develop in students an understanding of the microeconomic principles and methods of energy pricing. Topics include microeconomic foundations of energy pricing; demand, supply and demand-supply interactions under various market conditions; pricing as a planning tool; pricing and efficiency; methods of pricing; and case studies on the pricing of electricity, gas, oil and other energy resources.

**49706 Regulatory Economics**

6cp; block attendance; availability: Energy Planning and Policy core subject
Postgraduate

This subject focuses on developing an understanding of the economics of regulation, and methods and principles of regulation design for the energy sector and other sectors of the economy. Topics include: historical overview of regulation; drivers for regulation; costs and benefits of regulation; impacts of regulation; institutional structure, ownership and regulation; regulatory frameworks; regulation design; policy issues and politics of regulation; case studies on regulatory aspects which will be provided from the energy sector and other sectors of the economy.

**Typical availability**
Spring semester, City campus

**49723 Research Dissertation 1 (EIT)**

24cp; availability: research students from overseas universities

This subject is designed for research students from overseas universities who wish to complete part of their degree at UTS and to do so by continuing to develop and work on their ongoing thesis under the supervision of UTS academics.

**49724 Research Dissertation 2 (EIT)**

24cp; availability: research students from overseas universities
Requisite(s): 49723 Research Dissertation 1 [EIT]

There are also course requisites for this subject. See access conditions.

This subject is designed for research students from overseas universities who wish to complete part of their degree at UTS and to do so by continuing to develop and work on their ongoing thesis under the supervision of UTS academics. The subject extends or complements the work undertaken in Research Dissertation 1.
49776 Master of Engineering Thesis
0cp
Postgraduate
The subject description is available from UTS: Engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49928 Design Optimisation for Manufacturing
6cp; 3hpw; availability: all courses
Requisite(s): 120 credit points of completed study in C10061 Bachelor of Engineering Diploma in Engineering Practice OR 120 credit points of completed study in C10066 Bachelor of Engineering Science OR 120 credit points of completed study in C10067 Bachelor of Engineering Engineering
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: knowledge of computer programming
Postgraduate
The increasing demand on engineers to make their 'best' possible decisions in product design and manufacturing process at decreasing costs and a faster pace requires knowledge of methods in design optimisation. Optimisation has become a necessary part of product design and decision-making activities in mechanical, manufacturing and mechatronic engineering. This subject emphasises applications of advanced optimisation techniques in product design, manufacturing and project planning. It introduces students to an array of optimisation techniques and enables students to learn to use advanced techniques applicable in solving real product design and manufacturing problems such as machine scheduling, flexible assembly system scheduling, supply chain planning, job shop scheduling, project planning and scheduling, etc. On successful completion of this subject, students are able to understand the fundamentals of optimisation techniques and apply appropriate optimisation techniques in various applications.

Typical availability
Autumn semester, City campus

49986 PhD Thesis: Engineering
0cp
Postgraduate
The subject description is available from UTS: Engineering.

Typical availability
Autumn semester, City campus
Spring semester, City campus

49989 Operations Engineering
6cp
Every organisation has to provide value to its customer in order to survive in the current business environment. The value is an outcome of numerous processes that form the operations of an organisation. It is crucial for business success to design sound operations that are well maintained and continually improved. In this subject, students learn how to design, manage and optimise operations in manufacturing and non-manufacturing environments. Emphasis is placed on 'lean operations' which has become the best practice for both manufacturing and service organisations. Topics include: Toyota production system, just-in-time, types of waste, managing supply chain and inventory, total productive maintenance, and six sigma improvement system. Case studies from world-class organisations in manufacturing and non-manufacturing industries are provided.

50001 Online Documentary
8cp
Elective
Recent developments in digital media platforms and technologies are enabling emerging opportunities for online digital communication by a wide range of individuals, media producers, communities and organisations. This subject allows students to develop their research and production skills in online digital content production by exploring a range of relevant conceptual, creative, and production concerns and approaches. Students engage with issues such as online documentary, Web 2.0, platform delivery, social media integration, community building and digital project planning. They expand their production skills through technical workshops and by working in small teams to develop an online digital media project, with a focus on socially relevant, factual or documentary contents and approaches.

Typical availability
Spring semester, City campus

50190 Professional Information Project
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 50493 Managing Information OR 40 credit points of completed study in MAU10023 Information and Media major
BAccm
These requisites may not apply to students in certain courses. See access conditions.
Professional Strand - Information Management - 300 level
This is the capstone subject in the Information Professional Strand. In this subject, students plan, carry out and evaluate a major professional information activity for a client. Concepts and techniques for the planning and management of projects to meet client needs are introduced at the beginning of the subject. A contract for the project is negotiated between the student, their client and their academic supervisor. Students are expected to work independently on their project, guided by consultations with their supervisor and discussion with a peer support group. This subject must be taken in the final semester of study.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50251 Genocide Studies
8cp; elective
Elective
This subject focuses on two of the major genocides of the 20th century: the Armenian and Jewish experiences. Students may select a second option for study and assignment – a choice ranging from genocide in the ancient world through to considerations of, for example, Aborigenal Australia, events in contemporary Tibet, Burundi, Rwanda, Bosnia, Kosovo, the Kurds in the Middle East, the issue of East Timor and Cambodia.

Typical availability
Spring semester, City campus

50260 Parliamentary Placement
8cp; availability: not offered to exchange and study abroad students
Professional Strand - Social Inquiry - 300 level
This subject is a professional attachment subject arranged with the Parliament of New South Wales. It is limited to 10 students. Students are attached to the office of a Member of Parliament or a Parliamentary Officer. Students participate in a learning contract between themselves, UTS and the Parliament. Students are selected for the placement on the basis of criteria agreed with the Parliament.

Typical availability
Spring semester, City campus

50290 Australian Indigenous Social Policy
6cp
Postgraduate
The subject description is available from UTS: Education.

Typical availability
Spring semester, City campus

50291 Australian Political and Social Systems
6cp
Postgraduate
The subject description is available from UTS: Education.

50292 Policy Processes in Australian Indigenous Settings
6cp
Postgraduate
This subject offers the opportunity to study the development and implementation of a number of social policy initiatives in Australian indigenous settings. Using case study material, field visits where
possible and input from visiting speakers with first-hand experience of the implementation and impact of different social policies, students are encouraged to apply a critical approach to indigenous social policy management in its cultural and social setting.

50428 MA Writing Project
8cp; availability: not offered to exchange and study abroad students
Students complete, under supervision, the substantial piece of creative writing that has been approved as their thesis topic, along with and accompanying 3,000-word essay.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50720 Exchange Subject A
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50721 Exchange Subject B
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50722 Exchange Subject C
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50723 Exchange Subject D
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50724 Exchange Subject E
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50725 Exchange Subject F
8cp
The UTS International Exchange program, administered by UTS: International Studies, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. UTS: Communication participates in this program, under which students have the opportunity to undertake study at an exchange partner university.

Applicants for exchange must have their study at the exchange partner university approved by UTS: Communication’s international coordinator. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

50830 Contemporary Music 1
6cp; availability: not offered to exchange and study abroad students
This subject provides a contextual historical overview of contemporary music since 1950. It investigates the social environment, theoretical climate and influences that shaped contemporary music, examining genres as diverse as rock, jazz, experimental avant-garde, early electronic music to contemporary classical composers and non-Western music. Students are introduced to major schools of thought and the descriptive language, styles, genre, forms and origins in music history with particular focus on the nexus of acoustic and electronic sound and music based on listening. The subject also looks at sonic, harmonic and other structural elements as they draw on traditional cultural heritage, retrospective origins and new directions.

Typical availability
Autumn semester, City campus
50831 Sonology
6cp; availability: not offered to exchange and study abroad students
This subject explores the fundamental concepts behind the representation, synthesis, and manipulation of sound in the digital domain. These are multi-faceted topics and they are examined in a diverse range of contexts, including the physical nature of sound, digital signal processing theory, human physiology and psychoacoustics, computing technology as well as the aesthetic concerns of a contemporary sound designer. This subject examines basic techniques for synthesising digital audio signals, including additive and subtractive synthesis. It introduces a variety of visual representations of digital audio, and show how they relate to human auditory perception. Finally, this subject covers a selection of techniques for modifying digital audio, including filtering, panning and amplitude modulation. Study of the theoretical aspects of each technique is reinforced by practice-based laboratory sessions and assessments.

Typical availability
Autumn semester, City campus

50832 Electronic Music Composition
6cp; availability: not offered to exchange and study abroad students
This subject takes a conceptual and practical approach to composing music in a number of ‘non-traditional’ ways. It examines generative and algorithmic music, form and structural strategies for organising sound and music, harmonic theories, spatial design and approaches to creativity; challenging limitations of the conventional notions of the ‘score’. Students explore a breadth of methods for developing time-based sonic structures, generating sonic content and organising elements cohesively through projects. The subject does not assume or require musical, notational literacy but rather looks at electronic ways of composing beyond the traditional score, as well as software environments that facilitate creative practice.

Typical availability
Autumn semester, City campus

50833 Speech, Music, Sound
6cp; availability: not offered to exchange and study abroad students
The subject draws on a wide range of phonetic, linguistic, pragmatic, semiotic and musico-logical sources to introduce the communicative use of sound. It examines the communicative roles of aural perspective, rhythm, melody and timbre in music as well as in speech, everyday soundscapes and film and television soundtracks.

Typical availability
Spring semester, City campus

50834 Audio Production
6cp; availability: not offered to exchange and study abroad students
This subject provides an introduction to the basic concepts and production procedures involved in professional audio across a range of media. Students work in digital formats, focusing on idea development, composition, and experimentation. Conceptual and technical skills include listening, location recording, recording voices, interviewing, editing and mixing.

Typical availability
Spring semester, City campus

50835 Audio Culture
6cp; availability: not offered to exchange and study abroad students
The subject focuses on the meaning and significance of sound in different cultural contexts and historical settings. It addresses questions of aesthetics, poetics and politics. The aim is to study the emergence of sound as a specific object of theoretical analysis and to understand the impact of audio culture on wider culture. Subject areas covered may include methodological approaches to sound; ethnography of sound; voice; sound in various media; and the politics and aesthetics of sonic practices.

Typical availability
Autumn semester, City campus

50836 Sonic Art
6cp; availability: not offered to exchange and study abroad students
This subject explores theories and practices of sound art across various contexts including performance, installation, radio and online. Issues around the intersections of art, music and design are investigated, along with concepts such as noise and the influence of space on the presentation of work. Students research these ideas in the development of their own sonic artworks.

Typical availability
Spring semester, City campus

50837 Contemporary Music 2
6cp; availability: not offered to exchange and study abroad students
Requisites: 50830 Contemporary Music 1
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Building on the historic foundations of Contemporary Music 1, this subject focuses more specifically on philosophy, form and theory as it informs approaches to composing music and organising sound. These ways of thinking potentially provide methodologies for students in their creative practice. Learning by example, students consider works by master composers. The subject covers approaches to soundscapes and environmental sound founded by Murray Schafer; philosophies of silence, re-thinking form and chance with John Cage; relationships between physical, spatial and musical structures; microcosmic investigation by the Spectral composers; Stochastic and theoretical practices; digital and music concrete; post-digital music; world music influences in the orchestra and transforming notions of structure and sonority. The primary objective of this subject is to develop ways of transforming abstract thinking, philosophy and theory into practical approaches for creating music.

Typical availability
Spring semester, City campus

50838 Professional Practice (SMD)
6cp; availability: not offered to exchange and study abroad students
This subject introduces students to a variety of views and critiques of professionalism in the fields of music and sound design including: the roles and responsibilities of the creative professional; case studies of practice/studios; business management and planning; preparation for and modes of employment; legalities and liabilities; the ethical professional; the client/creative professional relationship; existing and emerging work practices in the industry; the role of professional bodies. Topics are covered through site visits, guest lectures, workshops and where possible and/or appropriate short term work experience placements.

Typical availability
Spring semester, City campus

50839 Sound for Time-based Media
6cp; availability: not offered to exchange and study abroad students
Sound plays an important role as supporting modality for many time-based media. The subject covers basic understanding of media such as film, video and games, and the role of sound and cross-modal issues. The practical element of the subject covers context-specific issues, such as film sets (Foley theatre, sound effects).

Typical availability
Spring semester, City campus

50840 Notation and Scoring
6cp
Requisites: 50832 Electronic Music Composition
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
For students specialising in composition, this subject investigates a wide array of scoring and notation techniques, including traditional, graphical, symbolic and computer or screen-based scores. Expanding the notion of score as a set of directives for conveying the intention of the composer and for rendering performance and interpretation, techniques for documenting, annotating and communicating music are explored. A diversity of methods are considered in order to match the diversity of music and sound generation performative
techniques available to the contemporary music composer, such as for electronic, acoustic, gestural, ensemble, theatrical and interactive works (even non-linear and generative works). Students also gain an in-depth knowledge of a professional notation program appropriate for commercial music engraving and dissemination.

50841 Orchestration and Timbre
6cp
Requisite(s): 50832 Electronic Music Composition
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject is particularly directed at the composer and creative, exploring the most didactic understanding of orchestration as the organisation of sounds in register, space, texture, sound quality, intensity, combinations and innovations. It concerns clustering, structuring, organising in time, space, pitch and colour and requires knowledge of the materials or instruments utilised. The subject spans acoustic instrumental, orchestral, ensemble writing through to electronic music and electro-acoustic music that generates sounds from the ground up. A significant part of the compositional process is positioning, grouping and choosing sounds to create a certain impression through a detailed understanding of timbre (tone colour). Students examine seminal masterworks from a range of eras, styles and ethnicities and develop works of their own that demonstrate fluency in different presentation scenarios.

50842 Electro-acoustic Composition
6cp; availability: not offered to exchange and study abroad students
Requisite(s): 50832 Electronic Music Composition
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

For students specialising in music creation and sonic composition, this directed individual project allows the composer/designer/artist to develop a major creative work of computer/electronic, electro-acoustic, art music performance or interactive sonic performance with a view to establishing the graduation portfolio and professional dissemination. The student is guided in tools of practice (software and techniques), and aesthetic and structural development of the work. In addition to creating a substantive creative work, students hone their presentation and professional delivery skills through a public outcome. Style, genre, and medium are intentionally extremely flexible to promote experimentation, creative thinking, innovative mixed-modality, performative or interactive works.

Typical availability
Spring semester, City campus

50843 Live Sound
6cp; availability: not offered to exchange and study abroad students
Sound design for live performance is a broad area that covers basic musical and theatrical understanding, insight in sound system technology and microphone techniques. This subject focuses on aspects of sound design for live performance and live sound practice. It identifies the differences between live sound practice and studio recording practice, and equips students with knowledge about PA systems, multi-channel sound systems and live mixing. Students also learn techniques, such as parametric filtering and delay line, and practise the relationships between microphones, instruments and hall acoustics in a live performance setting.

Typical availability
Spring semester, City campus

50844 Musical Instrument Design
6cp; availability: not offered to exchange and study abroad students
Musical instruments are examples of very sensitive and precise interfaces, allowing rich expression. Traditional mechanical instruments have been developed over centuries, evolving towards profound tools for musical expression. With electronic technologies, the development has been accelerated while the possibilities of the sound sources have increased, leading to a need for a more structured approach to musical instrument design. The subject covers history of musical instruments including taxonomies, electronic interface design principles, interaction frameworks, interface techniques (sensors, actuators and converters), and structured instrument design. The theoretical background is applied and further expanded in a practical design project, resulting in new instrument forms.

Typical availability
Spring semester, City campus

50845 Sound Systems
6cp
This subject focuses on the design of sound systems for live performance and theatre. It covers issues of acoustics and open-air venues, timing and the spread of sound over large areas using multiple loudspeakers. Students learn to configure and calibrate PA and performance situations for specific physical venues and spatial characteristics and to tailor sound system design for various cultural, technological, architectural situations. Students explore the technical effect of different speaker arrays, configurations, specifications and their interplay in live performance. Students also learn how to respond to dynamic features such as audience, environment, climate and instantaneous, unpredictable events.

50846 Situated Media Installation Studio
12cp; availability not offered to exchange and study abroad students
This studio-based subject explores situated media through installation. The interaction and experience of media is human-scale and occurs in gallery and museum installations, public places, in ambient (informative or responsive) displays, re-configurable architecture and large spatial environments. The objective of the interdisciplinary collaborative studio is to encourage dialogue across media boundaries and paradigms of designing, to facilitate trans-literacy in a spectrum of medium. Thus photographic and design students collaborate with sound and music students to investigate real-time interaction and the mediation of the human-scale experience, with interfaces such as sensors, camera-tracking, game controllers, wireless technologies, and methods of capturing user engagement. Versatile purposes for installation include informative display, modes of inquiry in public places, entertainment, ambient information display (visualisation and sonification of social and contextual data relating to the spatial, climatic or cultural environment) and dynamic architectural spaces. Students develop innovative ways to integrate different media from specialist design fields, to situating media according to its environment, perspective and context.

Typical availability
Spring semester, City campus

50847 Visualisation and Sonification Studio
12cp; availability: not offered to exchange and study abroad students
Visualisation and sonification are alternatives to textual analysis of abstract information. This studio explores a variety of ways of transforming data into both information visualisation and auditory information for the creation of formal structures, visual and auditory artefacts, or to influence generative processes and ambient display in architectural and public places. In this subject, students investigate effective mapping strategies and alternate modalities for communicating information or using information as the source of creative practice to develop aesthetic and clear methods of representation.

Typical availability
Autumn semester, City campus

50852 Sound Design for Interaction
6cp
This subject explores the use of sound as an interaction modality in interface design. It examines the purpose of sonification, for example, as a source of information and feedback or an added modality, and the use of sound in current products and systems, such as mobile phones, printers, cars and websites. Students learn the theory and skills needed to develop effective, efficient and pleasurable interactions using sound. User-centred design, ergonomics, engagement, practicality and interface design contribute to the user experience and interactive responsiveness developed in this subject.

50853 Wearable Media and e-Fashion
6cp
Ambient display and pervasive computing permeates wearable communicative technology. Innovations in conductive fibres, motion and bio-data sensors, miniature microprocessors and wearable communication use technology as the enabler in body-worn designs: e-textiles, e-fashion, clothing, jewellery and other adornments as wearable, smart-e-fashion. The purposes for wearable electronic media range from the purposeful and informative (such

Access conditions are available in the individual subject descriptions in the online handbook.
as health and fitness monitors, eco-aware, persuasive devices) to communicative and sociable (interactive and responsive visual, auditory, tactile and sensory interfaces) and expressive (fashion, art, craft and individualising designs using contemporary knowledge and materials). This subject fosters design collaboration between students from visual communication, textiles, fashion, craft, computing, sound and situated media experience. Students learn the material characteristics, fabrication and technical requirements of designing for innovative textiles while considering user-centred practical concerns such as wearing, washing, communicating and interacting with the e-fashion artefact. This includes programming for physically responsive and sensing technologies.

51984 Master of Arts Thesis
0cp; availability: not offered to exchange and study abroad students
For subject description, contact UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

51985 Master of Creative Arts Thesis
0cp; availability: not offered to exchange and study abroad students
The Master of Creative Arts is examined through the presentation of a creative work of the equivalent of 20,000-25,000 words and a thesis of 10,000-15,000 words.
Further information is available from UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

51991 PhD Thesis: Humanities and Social Sciences
0cp; availability: not offered to exchange and study abroad students
For subject description, contact UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

51992 Doctoral Project
0cp; availability: not offered to exchange and study abroad students
For subject description, contact UTS: Communication.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55004 Honours Thesis (FT)
24cp; availability: not offered to exchange and study abroad students
Requisites: 55049 Honours Workshop
Honours subject - 400 level
Honours Thesis is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis which may be presented in one of a variety of traditional and/or non-traditional formats.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55006 Honours Thesis (Production) (FT)
24cp; availability: not offered to exchange and study abroad students
Requisites: 55049 Honours Workshop
Honours subject - 400 level
Honours Thesis (Production) is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis which may be presented in one of a variety of traditional and/or non-traditional formats.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55057 Honours Thesis Part A
12cp; availability: not offered to exchange and study abroad students
Requisites: 55049 Honours Workshop
Honours subject - 400 level
The Honours Thesis is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis which may be presented in one of a variety of traditional and/or non-traditional formats.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55058 Honours Thesis Part B
12cp; availability: not offered to exchange and study abroad students
Requisites: 55057 Honours Thesis Part A
Honours - 400 level
The Honours Thesis is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis which may be presented in one of a variety of traditional and/or non-traditional formats.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55061 Honours Thesis (Production) Part A
12cp; availability: not offered to exchange and study abroad students
Requisites: 55049 Honours Workshop
Honours subject - 400 level
The Honours Thesis (Production) is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis which may be presented in one of a variety of traditional and/or non-traditional formats. The production thesis may require use of technical support facilities or equipment.

Typical availability
Autumn semester, City campus
Spring semester, City campus

55062 Honours Thesis (Production) Part B
12cp; availability: not offered to exchange and study abroad students
Requisites: 55061 Honours Thesis (Production) Part A
Honours subject - 400 level
The Honours Thesis (Production) is the major component of the Bachelor of Arts (Honours) in Communication program. It provides an opportunity for students to undertake original work informed by advanced theoretical study and independent research, relevant to the academic, professional and/or creative goals they have identified. Students work with an academic supervisor to produce a thesis that may be presented in one of a variety of traditional and/or non-traditional formats. The production thesis may require use of technical support facilities or equipment.
Access conditions are available in the individual subject descriptions in the online handbook.
practices, in particular historical and cultural contexts. The subject aims to develop a working knowledge of relevant areas of media law, such as defamation, copyright and contempt, with an emphasis on understanding the way the law works in practice and the policy issues which arise. A comparative approach is used to explore legal systems in different parts of the world.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57013 Journalism Studies
8cp; availability: not offered to exchange and study abroad students
Graduate subject - Journalism - 400 level
The aim of the subject is to explore the scholarly debates that address news organisations, journalism practices, and the processes of production and consumption of news and current affairs. A comparative theoretical approach is used to critically examine questions about journalism – both from the point of view of those involved in producing media products and from the point of view of audiences. The subject considers the relationship between the media and ideas about democracy, and the relevance of media theory for professional journalism.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57014 Feature Writing
8cp; availability: postgraduate Journalism students are permitted to undertake this subject concurrently with the subject Research and Reporting for Journalism
Requisite(s): 57011c Research and Reporting for Journalism
These requisites may not apply to students in certain courses. See access conditions.
Graduate subject - Journalism - 400 level
This subject aims to develop skills in feature story writing through a comparative approach to the work of contemporary practitioners. The emphasis is on developing and improving research and writing skills. Students aim to produce publishable work. The subject offers students insights into the breadth of style and genre available to non-fiction writing, including social-realist writing, essays, columns, profiles, new journalism and more complex in-depth features. A range of techniques of researching, interviewing and writing are practised and critiqued. Ethical considerations are explored in the context of particular examples of production.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57021 Journalism Internship
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57011 Research and Reporting for Journalism
These requisites may not apply to students in certain courses. See access conditions.
Graduate subject - Journalism - 400 level
This subject gives students opportunities for structured professional work placement in which journalism is produced. Those participating in this subject produce a portfolio of journalism, a written report and a diary of the time and work details during the attachment. Students build on and develop skills they have acquired during their studies and apply those skills in a practical environment. The subject is aimed at self-directed learning and regular academic supervision. Students are also asked to present a seminar paper that reflects their knowledge and learning experience with other students.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57022 Foundations of Communication
8cp; availability: not offered to exchange and study abroad students
Graduate subject - Public Communication - 400 level
This subject introduces the concept of the management arenas within which communication is practised. It analyses the communication issues raised by different organisational contexts and applies the models and metaphors of dominant and alternative perspectives in communication studies. Meaning-making processes in communication management practice are studied to develop an understanding of communication as negotiated meaning. Students learn to approach workplace situations critically and creatively and develop their communication management expertise in interpersonal and mediated communication to handle change, uncertainty and complexity.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57023 Communicating with Publics
8cp
Graduate subject - Public Communication - 400 level
In this subject students analyse the social construction of publics and organisation-public relationships. They study different models of public relations practice and draw on current theories about publics, audience and media to help them understand the development of strategies to communicate with internal and external publics. There is a strong focus on identifying the ethical implications of decisions, actions and outcomes in communicating with publics. Students are encouraged to participate in a discussion on approaches to empowering or influencing publics. The attitudes, knowledges, behaviours and issue positions of various publics are studied to enable students to assess how to best communicate with them. Students learn about different research strategies for understanding communicating with publics.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57024 Managing Public Communication Strategies
8cp
Requisite(s): 57023 Communicating with Publics
These requisites may not apply to students in certain courses. See access conditions.
Graduate subject - Public Communication - 400 level
This subject explains the concept of public relations as communication management and demonstrates the contribution and relevance of public relations to modern organisations. A range of perspectives provides thoughtful and challenging approaches to the work of a public relations practitioner. Students learn to set goals and objectives and to plan and implement campaigns for internal and external publics. They become confident in an evaluating all aspects of their work and develop competency in cost-benefit analysis and the analysis of the financial implications of their work. Public relations principles are applied to examples from students’ own professional practice to develop a reflective understanding of why as well as how to approach particular issues and problems.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

57025 Intercultural and International Communication
8cp
Graduate subject - Public Communication - 400 level
This subject focuses on media representations of similarities and differences, ethnocentrism in communication and methods for achieving cross-cultural communication. It introduces critical themes and vocabularies in intercultural communication and explores the links between communication and culture creation. It analyses the sociopolitical circumstances and individual attribution processes that lead to stereotyping, and in this context assesses the role of verbal and non-verbal communication. Students develop strategies for dealing with cross-cultural issues, for working in multicultural teams and organisations, and for designing communication for and with multicultural publics and audiences. Globalisation and localisation strategies and effects are studied with a particular focus on communicating in and with Asia, and other key sociopolitical geographic arenas. This subject is designed to enable students to deal with the impact of the increasing internationalisation of communication management, public relations and advertising. It challenges the use of ethnocentric communication and assists students to develop effective strategies for achieving cross-cultural communication.
Typical availability
Spring semester, City campus

57026 Strategic Communication and Negotiation
8cp
Graduate subject - Public Communication - 400 level

This subject analyses and critiques communication campaigns and develops expertise in using strategic planning and applying it to communication management. This involves applying understandings of environmental scanning, stakeholder analysis and issues management. There is an emphasis on understanding consultative processes and learning effective approaches to community consultation. Students develop an understanding of and expertise in negotiation strategies. They study techniques of negotiation and conflict to enhance the development of expertise in managing different expectations and results. Students learn a practical approach to negotiating, agreement and apply it to their communication and public relations work.

Typical availability
Spring semester, City campus

57028 Research for Communication Professionals
8cp
Graduate subject - Public Communication - 400 level

This subject introduces a range of research methods useful for communication practice and ensures that students can choose and use appropriate research methodologies. Using examples drawn from industry, research is presented as a tool to make the practice of communication and public relations more effective, useful and professional. Students develop expertise in designing research, making observations, taking measurements, and interpreting and reporting their findings, all with a focus on the kind of research they are likely to encounter in their own careers. It provides those enrolling in the Communication Management Project with the necessary knowledge of research to design and manage their projects.

Typical availability
Autumn semester, City campus

57031 Non-fiction Writing
8cp; availability: not offered to exchange and study abroad students
Graduate subject - Writing – 400 level

Non-fiction writing takes many forms, and each of these has its own generic conventions, limitations and potentials. This subject explores the similarities and differences between such genres as the essay, technical and scientific writing, writing history (and recording oral histories), writing about place, cultural criticism and feature journalism. In any one semester, the genres considered depend on the availability of expert staff and on student interest.

Typical availability
Autumn semester, City campus

57035 Organisational Change and Communication
8cp
Graduate subject - Public Communication - 400 level

In this subject students analyse differing perspectives on communication in organisations and the ways in which group processes affect organisational life. The subject focuses on the communication features of management and leadership and aims to provide students with the ability to evaluate and critically discuss their own and others' leadership and communication styles. It enables students to make connections between theories and practice so they can develop successful team building and team management strategies. Conflict management, change management, culture creation, problem solving and decision-making are some of the workplace challenges explored in this subject. Approaches to leadership, communication climate and motivation of staff are analysed in the context of ever-changing organisational environments, including technology and globalisation.

Typical availability
Autumn semester, City campus

57041 Narrative Writing
8cp
Graduate subject – Writing – 400 level

This subject emphasises narrative development, with close attention to the relationship between structure and content in traditional and experimental fiction. Craft skills appropriate to narrative writing are developed through exercises and sustained work on pieces of fiction, along with consideration of principles of editing and revision. The focus of the class is the students’ own work. A range of narrative writing is read and discussed, integrating practical work with critical reflection on the processes of narrative writing. This is a core subject for postgraduate writing students and is suitable for students in other areas wishing to develop their writing through exercises and sustained work.

Typical availability
Autumn semester, City campus

57044 Professional Editing
8cp
Graduate subject - Writing - 400 level

This subject is offered to postgraduate students who wish to gain an understanding and practical experience in the editing of written texts, so that they may edit works themselves, or so that they have an understanding of the process when their own work is edited. The subject focuses on the editing of literary fiction and non-fiction manuscripts. The emphasis is on editing book-length manuscripts but the skills can be applied to editing any written texts.

Typical availability
Autumn semester, City campus

57053 Book Publishing and Marketing
8cp
Graduate subject - Writing - 400 level

This subject introduces students to contemporary debates in documentary through a study of documentary history, genre, ethics and changing forms. It develops skills in critically analysing documentary film and its evolution from silent film through to the digital online environment. Students present critical documentary case studies via screenings and analysis using contemporary documentary film scholarship. Students develop documentary proposals for film, television and / or the online environment from research to treatment and production. Students determine budget, navigate the media market and ensure that students can choose and produce in-depth critical analyses of documentary film(s) and / or contemporary issues in documentary.

Typical availability
Autumn semester, City campus

57061 Issues in Documentary
8cp
Graduate subject - Media Arts and Production - 400 level

This subject introduces students to contemporary debates in documentary through a study of documentary history, genre, ethics and changing forms. It develops skills in critically analysing documentary film and its evolution from silent film through to the digital online environment. Students present critical documentary case studies via screenings and analysis using contemporary documentary film scholarship. Students develop documentary proposals for film, television and / or the online environment from research to treatment or first draft stage. Students participate in project workshops to discuss their proposals and essays. Students may also produce in-depth critical analyses of documentary film(s) and / or contemporary issues in documentary.

Typical availability
Autumn semester, City campus

57084 Information Architecture and Design
8cp
Graduate subject - Information Management - 400 level

This subject introduces students to user-centred information design and architecture principles. These are applied specifically to the development of information products and services that facilitate
a variety of communication interactions. Content management and organisation is examined in relation to models for designing and structuring information and communication products. These models are evaluated in terms of their appropriate application to the opportunities and capabilities available for distributing information across a range of print and multimedia. Policies and key issues such as accessibility, ethics, intellectual property, privacy and security, publishing, usability and online teaching and learning are related specifically to implications for accessing, using and sharing knowledge. On a practical level, students develop professional capabilities for translating information architectures into web materials using web authoring and HTML skills. They also develop professional communication and collaboration skills by working in teams to meet collectively negotiated goals.

**Typical availability**

Autumn semester, City campus

**57087 Knowledge Management and the Organisation**

8cp

Graduate subject - Information Management - 400 level

This subject explores notions of information and knowledge, critically examining the range of viewpoints and concepts within knowledge management. Students examine a variety of types of organisations, and practice techniques for analysing and evaluating the internal and external information and knowledge environments of these organisations. From this analysis of information and knowledge production, flows and processes can be identified and evaluated. The subject emphasises the human characteristics of generating, communicating and using knowledge, and the way these can be integrated with the organisational strategy and processes. Students will have an understanding of the knowledge components of organisational processes and cultures, and the role of the information professional in knowledge-based organisations. The value of knowledge within organisations is explored via knowledge management case studies.

**Typical availability**

Autumn semester, City campus

**57089 Information Research and Data Analysis**

8cp

Requisites: 57100 People, Information and Knowledge

Graduate subject - Information Management - 400 level

This is a core subject for the Master of Arts in Information and Knowledge Management. Students are introduced to a range of the quantitative and qualitative research methods used in the study of people and information and develop skills in analysing and presenting data using standard software packages. Students apply their knowledge and skills to designing and executing a pilot research project. The ethics and politics of research are covered and the differing views of reality, the roles of the researcher and the establishment of knowledge claims are introduced.

**Typical availability**

Spring semester, City campus

**57100 People, Information and Knowledge**

8cp

Graduate subject - Information Management - 400 level

This subject begins with an examination of the fundamental philosophies of information and knowledge relevant to the areas of information management and knowledge management. It also serves as an introduction to frameworks for exploring and analysing people's information behaviour. Students develop a detailed understanding of the theoretical underpinnings that link people, information and knowledge. The subject introduces the concepts of information ecologies and communities of practice as part of the skill set for working with and understanding the implications of people needing, using and adding value to information. These concepts draw on interdisciplinary theories articulated within the social, cognitive, management and computing sciences.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**57101 Advanced Screenwriting**

8cp

Requisites: 50359c Screenwriting OR 50309 Advanced Screenwriting OR 57142 Writing for the Screen

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Graduate subject - Writing - 400 level

This subject explores the creative and complex storytelling potential of the cinematic image. It examines the relationship between the eye of the camera and the written text and offers students an opportunity to investigate both sound and image as metaphor while developing an existing piece of screenwriting. It explores adaptation from a literary source as well as storytelling possibilities opened up by digital technology and contemporary experiments in narrative structure. Students with an existing treatment or draft may develop a feature or short feature. Students with a short drama may develop a shooting script.

**Typical availability**

Spring semester, City campus

**57103 Knowledge Management Strategies**

8cp; availability: not offered to exchange and study abroad students

Requisites: 57087 Knowledge Management and the Organisation OR 52534 Knowledge Management Systems OR 52180 Managing Knowledge

Graduate subject - Information - 400 level

This subject builds on an understanding of organisational drivers for managing information and knowledge. Students investigate the characteristics of a broad range of strategies within the current rhetoric of knowledge management. This investigation considers the roles of enablers such as people, process, content and technology in planning and managing knowledge initiatives to reinforce, support and/or strengthen the knowledge environment. Topics covered are largely driven by current developments within knowledge management and include building knowledge cultures, creativity and innovation, organisational memory, facilitating communities of practice, managing content, value creation and knowledge transfer. At the end of the subject students will be able to propose appropriate strategies for creating, sharing and using knowledge to achieve goals at both a group and organisational level.

**Typical availability**

Spring semester, City campus

**57104 Information and Knowledge Management Project Part A**

4cp; availability: not offered to exchange and study abroad students

Requisites: 48 credit points of completed study in C04203 Master of Arts in Information and Knowledge Management AND 57089 Information Research and Data Analysis

Graduate subject - Information Management - 500 level

This is a core subject for the Master of Arts in Information and Knowledge Management. The subject involves planning a professional project that is aimed at integrating theoretical knowledge and practical skills. A combination of learning frameworks is used (e.g. learning contracts, information project management, information consolidation) to enable the student to plan and develop, with academic supervision, an individually tailored program or project.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**57105 Information and Knowledge Management Project Part B**

12cp; availability: not offered to exchange and study abroad students

Requisites: 57104 Information and Knowledge Management Project Part A

Graduate subject - Information Management - 500 level

This is a core subject for the Master of Arts in Information and Knowledge Management. The subject involves the implementation of a professional project that is aimed at integrating theoretical knowledge and practical skills. A combination of learning frameworks is used (e.g. learning contracts, information project management, information consolidation) to enable the student to implement, with academic supervision, an individually tailored program or project.
57108 Film Animation
8cp
Graduate subject – Master of Animation (Faculty of Design, Architecture and Building)
This subject introduces students to all the major styles of traditional film animation and to the study of film animation techniques. Students are introduced to flip books, claymation, drawing on cells, pixillation and collage animation styles through hands-on exercises and detailed study of animation films. Equipment used includes 16 mm non-sync cameras and 16 mm and 35 mm Oxberry Animation Stands.

57109 Film Animation
6cp
Graduate subject – Media Arts and Production - 400 level
This subject introduces students to all the major styles of traditional film animation and to the study of film animation techniques. Students are introduced to flip books, claymation, drawing on cells, pixillation and collage animation styles through hands-on exercises and detailed study of animation films. Equipment used includes 16 mm non-sync cameras and 16 mm and 35 mm Oxberry Animation Stands.

57122 Short Fiction Workshop
8cp
Requisite(s): 57041 Advanced Narrative Writing OR 57031 Non-fiction Writing
Graduate subject - Writing - 400 level
This is an advanced workshop subject for students who are interested in short fiction, and keen commence work on a collection of short stories. The focus of this subject is on form: what makes a short story? How do I turn a simple narrative or even an anecdote into a short story? We also focus on redrafting and editing.

57124 Novel Writing
8cp
Requisite(s): 57041 Advanced Narrative Writing OR 57031 Non-fiction Writing
Graduate subject - Writing - 400 level
This is an advanced workshop for students who have some background in fiction writing and who are either commencing work on a novel or have already commenced. The aim of this subject is to produce the opening section of a potential novella or novel, or a substantial portion of a work in progress, minimum 5000 words and maximum 10,000 words. Contemporary and experimental forms of the novel are studied and encouraged as well as more traditional narratives. Students study a range of short novels that enhance their understanding of the form and help develop their critical skills. Workshop participation and peer assessment are a vital part of this subject.

Typical availability
Autumn semester, City campus

57130 Animation Concepts Seminar
6cp
Graduate subject – Master of Animation (Faculty of Design, Architecture and Building)
This subject covers some key concepts of animation. Students will be able to study and research these concepts in relation to major and experimental methods for generating animation (including optical toys, stop frame, pixillation, procedural, motion capture, genetic algorithms, cel, claymation, rotoscoping, interactive, real-time, 2D and 3D computer animation). Learning is by lectures, seminars and in-class presentation by students.

57131 Inventive Media Advertising
8cp
Graduate subject – Public Communication – 400 level
This subject explores the importance of ideas in communication and building brands, the challenges posed by a diverse media landscape and the efficiency of advertising. Against a backdrop of technological change, students examine the consumer’s interactions with the media, brands, ideas and advertising. As a component of finding insights and recognising ideas, students examine what changes occur in ideas as they migrate from one channel to another and the associated issues for practitioners. In pursuit of innovative approaches to idea generation, a critical research and practice-based approach is taken in which students explore experimental and industry techniques and critique their value in uncovering ideas with practical potential for advertising. Students develop creative solutions for a variety of channels representative of today’s complex media environment.

Typical availability
Spring semester, City campus

57132 Media Relations
8cp
Graduate subject – Public Communication – 400 level
In this subject, students explore the role and uses of media relations for communication management. They explore the relationship between journalism and public relations and the structures, regulatory frameworks and processes relevant to developing media strategies. They review mass communication research traditions such as media effects theories and agenda setting, applying their understanding to issues for professional public relations practice. Public opinion and diffusion of ideas and innovations are examined, along with the concept of the public interest. Students investigate ways in which new media have changed the landscape for communicating with publics and for media relations. They practise developing media plans and products to broaden their awareness of the diversity of media channels. In their final project, they develop briefing notes and perform as interviewees in the UTS television studios.

Typical availability
Autumn semester, City campus

57133 Writing Poetry
8cp
Graduate subject – Writing – 400 level
In this subject students write extensively and read widely in a variety of genres of contemporary and modern poetry. The subject is designed for students who, interested in writing, have a sustained interest in poetry or who, while not being poets themselves, wish to develop a working knowledge of recent and contemporary practices in poetry. The approach stresses the student’s own creative practice and the exploration of genre and technique in the composition of poetry. The unit also introduces the work of a number of contemporary Australian and international poets as part of a field of creative and professional contexts in which poetry is written today. The unit is a workshop designed to encourage participants to enhance their skills as poets and also to develop a critical ability in editing and revising their own work and that of other writers in the class. At the same time, broad issues to do with the work of the contemporary poet, whether to do with specific aspects of creative practice, publishing, experimentation, or the presence of poetry in performance oriented or other non-literary formats, will feature in the workshop.

Typical availability
Spring semester, City campus

57134 Theory and Creative Writing
8cp
Graduate subject – Writing – 400 level
This is a core subject for two of the graduate writing programs and one which provides valuable theoretical and historical contexts for students' own writing. It introduces students to major developments in literary theory and examines in close detail a number of key texts from several genres that illuminate the use of theory for the practising writer. It also introduces students to some of the major developments in western literature, such as realism, modernism and postmodernism, as well as to the narrative theories that underlie these developments,
particularly in relation to contemporary writing. Students critically explore ideas on writing directly arising from their theoretical and other reading, both in classroom discussion and in their written work. Students also workshop their creative writing, which is expected to reflect aspects of writing and literary theory that has been explored in the subject.

This subject:
- contextualises writing by examining literary movements, ideas and developments
- promotes essential critical and creative thought in relation to reading and writing
- enables a practical understanding of aesthetics and cultural debates
- enables exploration and experimentation of ideas in writing practice.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

### 57138 International and Comparative Journalism

8cp  
Graduate subject - Journalism - 400 level

This subject is concerned with the ways in which the philosophical basis, role and activities of journalism have developed in relation to social context. It takes a comparative approach to historical and contemporary forms of journalism in western liberal democracies, post-colonial multi-party states and single-party states, and relates professional and community practice in journalism to developments in the political, economic and coercive fields. Among other themes it will consider internationalisation of news flows, development journalism, policy initiatives such as NWICO (the New World Information and Communication Order), free speech and censorship, and public/private sector media. It emphasises the specificity of historical and geographic factors within larger structural developments, and takes a comparative and critical approach to the use and evaluation of social theory.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

### 57142 Writing for the Screen

8cp  
Graduate subject - Writing - 400 level

This subject offers postgraduate students the opportunity to develop advanced skills in writing for the screen. Students can develop short or long-form drama or animation. Students develop an idea through industry-accepted stages of development and formats and through workshops with professional actors. Students gain skills in research, visualisation, structuring, storytelling and character development. Students also improve their ability to read, develop and script-edit their own work and the work of their colleagues.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

### 57144 Popular Fiction

8cp  
Requisites: 57041 Advanced Narrative Writing OR 57031 Non-fiction Writing OR 57142 Writing for the Screen OR 50359 Screenwriting OR 50209 Advanced Screenwriting  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Graduate subject - Writing - 400 level

This subject provides a theoretical understanding of, and practice in, the writing of three popular genres: crime/adventure, romance, and science fiction/fantasy. It offers students the opportunity to work in a specific genre while simultaneously exploring the wider codes, conventions, structures and possibilities of writing popular fiction. It examines the historical and contemporary importance of popular fiction as a literary form and ways in which generic forms may be used or subverted. Several key popular fiction texts are examined with critical reflection on linear narrative and the concept and construction of plot.

**Typical availability**

Autumn semester, City campus

### 57145 Freelance Writing

8cp  
Requisites: 57041 Advanced Narrative Writing OR 57031 Non-fiction Writing OR 57142 Writing for the Screen OR 50359 Screenwriting OR 50209 Advanced Screenwriting  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Graduate subject - Writing - 400 level

This subject addresses the theoretical and practical aspects of critical writing in the key creative and professional genres: literary journalism, essay writing, reviewing (particularly book reviews) and literary criticism. Students are introduced to examples of critical writing in magazines and journals as well as in the major newspapers, and are encouraged to engage with the nature of informed critical reading in relation to contemporary writing. The subject aims to increase understanding of how appropriate critical writing responds to significant literary issues, and how it may usefully contribute to debate over these issues. This subject includes examination of significant literary or cultural topics, focusing on specific texts or authors and the writing of a profile, essay or review article demonstrating understanding of and engagement with the institutional, publishing and media context in which critical writing is produced.

**Typical availability**

Spring semester, City campus

### 57146 Organising Information

8cp  
Graduate subject - Information and Knowledge Management - 400 level

This subject explores the interrelationship between processes and principles of information/knowledge organisation and information access. Students learn advanced skills of information organisation and apply them to the design and development of a database created in response to particular client requirements. The subject covers topics such as database structures, content analysis, indexing, abstracting, classifying, content management, architecture and metadata creation. The major project involves database creation and usability testing.

**Typical availability**

Spring semester, City campus

### 57147 Enterprise Content Management

8cp  
Graduate subject - Information and Knowledge Management - 400 level

Enterprise content management (ECM) includes the strategies, processes and tools used to capture, manage, store, preserve, and deliver content to support organisational outcomes. This subject provides an overview and explanation of ECM and its key components. It explores how ECM contributes to the management and use of an organisation's structured and unstructured information, wherever that information exists.

Students explore frameworks of ECM and are introduced to the strategies and techniques for managing records, documents, email, web-based and collaboration content, business applications such as customer relationship management and enterprise resource planning, business processes and workflow. The subject explores key strategic drivers for ECM, such as governance and information sharing, and shows how organisations effectively deploy ECM to improve relationships between people, content, processes and technology and contribute to organisational outcomes.

**Typical availability**

Spring semester, City campus

### 57148 Discovering and Accessing Information

8cp  
Graduate subject - Information and Knowledge Management - 400 level

This subject explores the nature, functions and characteristics of a range of resources and collections in diverse settings. It examines the interrelationship between processes and principles of information/knowledge organisation, selection and retrieval practices and information seeking behaviours. Students develop an understanding of the theory and practice of information retrieval and collection
management in networked information environments. Students learn to apply client-centred approaches to information retrieval and develop specialised search strategies that enable them to improve client access to electronic and print resources. The subject covers topics such as: Boolean logic, thesauri tools, keyword searching, metadata and mediating relationships. Information retrieval interactions (including interpreting the needs of information seekers, negotiating, question analysis, searching and evaluating retrieval effectiveness) are also examined. These principles are put into practice in specific client contexts in the workshops and assessable tasks.

Typical availability
Autumn semester, City campus

57149 Information and Knowledge Management Major Paper
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57089 Information Research and Data Analysis AND 48 credit points of completed study in CO4203 Master of Arts in Information and Knowledge Management
Graduate subject - Information and Knowledge Management
500 level

In this subject, students explore in depth a topic relevant to a specific area of information or knowledge management theory or practice and prepare a major paper for publication in a refereed journal of the field. Students critically analyse and synthesise theoretical and professional literature on the topic; they also have the opportunity to theorise their own practice. Students demonstrate their understanding of the topic through the presentation and discussion of their major paper and extend this understanding to the topic areas chosen by others in the student group.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57150 Editing and Design
8cp
Requisite(s): 57011 Research and Reporting for Journalism
Graduate subject - Journalism - 400 level

This subject introduces students to the basic principles, techniques and professional practice of editing, layout, design and production across print and online media. The subject covers print in all its forms as well as aspects of editing for online publications. The subject takes as its premise that whatever information is to be delivered, and by whatever sophisticated means, it remains imperative this is achieved with clarity, fairness and balance and that the scrupulous eye and rigorous standards of a trained sub-editor are essential to that outcome. The subject covers the theory and practice of editing, the role of the sub-editor, and basic design and layout for print and online media.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57151 Storytelling with Sound and Image
8cp

This subject explores the production of news and current affairs in the audio visual domain within the context of a critical examination of current professional practice. Students develop skills in audio and video recording, interviewing, scripting, editing and presentation while devising and producing short news and current affairs reports. Students develop an understanding of the impact of online media developments on audio and visual journalism and the ethical implications that arise in the production of broadcast materials. A focus on issues relevant to cultural diversity is maintained throughout the course. Students log their stories in their e-portfolios, exploring the prospect of publishing more broadly.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57152 Investigative Research in the Digital Environment
8cp

This subject introduces advanced skills and methods for doing investigative research in the electronic environment, often referred to as computer-assisted research, not only for advanced information retrieval, but also for data mining and data and information analysis. Students develop their capacity to use contemporary computer-based methods of investigation in combination with other methods of inquiry and analysis to produce new knowledge and insights in relevant fields of practice that include information and knowledge management, journalism and other forms of social research. As well, students develop PIM (personal information management) techniques, including the creation of databases and digital repositories and explore how these can be used in the writing of research briefings for clients, reports for a range of publics, or investigative stories for audiences. This subject is designed for postgraduate students who already have basic information discovery and retrieval skills developed in information management, journalism, business, or other relevant field of practice.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57153 Digital Curation
8cp
Postgraduate

Increasingly vast amounts of digital data, content and objects are being created in a multitude of formats, in many organisational and cultural contexts, including museums, archives, film and media organisation, government, corporate and research institutions. As well, there has been huge investments in digitisation and purchase of digital content and information. In this subject students are introduced to both the theory and applied knowledge of storing and preserving this digital content so that future generations are able to access and understand it. Students are introduced to a range of techniques for digitising analogue materials, for migrating these file formats to newly developed technologies, for preserving the original context of the content and to provide mechanisms for this content to be accessed. In a collaborative and interactive learning environment, students develop specifications for digital curation projects and prototype trusted digital curation models, taking into consideration the social-economic and legal aspects of digital curation, such as digital rights managements, archival evidence and specialised social and cultural contexts.

Typical availability
Spring semester, City campus

57154 Writing Television Drama
8cp

This subject offers postgraduate students a comprehensive overview of, and active participation in, the practical processes involved in developing and writing long form television character-based drama and comedy, from initial idea through to script production. The subject is project-based, taking students from the basic elements of screenwriting, through the particular collaborative process of television series and serial writing, and acquainting them with the idiosyncrasies of dealing with producers, story liners, editors and directors. Students learn to apply a range of techniques and working styles required to produce and develop successful television drama and comedy, and the importance of adhering to production schedules and to the needs of the script. Students will also gain a deeper understanding of television genres ranging from comedy to hard-hitting drama, from Australia and overseas. Working in groups, each student generates an idea for a television series which is then developed into a formal, ‘series outline’, or ‘production bible’. This includes a complete draft of a series outline, or ‘production bible’. This includes a complete draft of a sample episode. Students learn to pitch an idea to producers/directors and from it produce the type of follow-up document that has currency within the industry. Students are assessed on both group and individual work.

Typical availability
Spring semester, City campus
57155 Online Journalism
8cp
Requisite(s): 57011 Research and Reporting for Journalism
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject introduces students to the application of internet technologies to journalism practice. It builds on the journalism skills of research, reporting, interviewing and analysis and applies them to the World Wide Web. The subject explores changes in professional journalism practice and the major issues related to sourcing and publishing journalism on the web. It teaches web publishing skills for journalism and explores content management systems for the publication of text, video, stills, audio and soundslides.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57156 Radio Journalism
8cp
Requisite(s): 57011 Research and Reporting for Journalism AND 57151 Storytelling with Sound and Image OR (57168 Sound and Interaction AND 57167 Moving Image)
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops the technical and presentational skills involved in the production of radio current affairs journalism. Students study a range of current affairs formats as they produce short- and long-form current affairs packages for broadcast on radio station 2SER-FM. As the students learn practical radio journalism skills, they explore the editorial and ethical issues that exist in the professional broadcast environment.

Typical availability
Spring semester, City campus

57158 Television and Video Journalism
8cp
Requisite(s): 57011 Research and Reporting for Journalism AND 57151 Storytelling with Sound and Image OR (57168 Sound and Interaction AND 57167 Moving Image)
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
This subject develops the editorial, technical and presentational skills involved in the production of television and video news and current affairs journalism. Students study a range of news and current affairs formats as they produce short- and long-form current affairs packages for broadcast on the internet and / or television. As the students learn practical television and video journalism skills, they explore the editorial and ethical issues that exist in the professional broadcast environment.

Typical availability
Spring semester, City campus

57161 Investigative Journalism
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57011 Research and Reporting for Journalism
These requisites may not apply to students in certain courses. See access conditions.
There are also course requisites for this subject. See access conditions.
This subject introduces students to investigative reporting, a style of journalism which probes deeper than most daily news journalism. Students familiarise themselves with research techniques which have proved useful to journalists pursuing in-depth stories, analyse and learn from investigative reporting by others, and solve problems which arise in stories through group discussion. The subject emphasises problem solving in the context of hands-on experience in developing stories from conception to finished product. The subject is designed to: demonstrate a wide variety of practical research techniques, especially the use of public records; to show the distinctiveness of investigative reporting; and to use students' own problems and experience in researching their assignments as practical examples of the way to apply investigative techniques.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57162 Memory and Life Writing
8cp; availability: not offered to exchange and study abroad students
The study and writing of a life is now one of the most popular and dynamic fields in non-fiction scholarship. This subject introduces students to the interdisciplinary study of life writing in forms such as biography, autobiography, family history, oral history, memoir, TV, radio, drama and portraiture, and engages with the critical and methodological issues raised by these various approaches. In scoping the field, this subject engages with central issues of memory, agency, identity, self-representation, and so on. Life writing can encapsulate the relation between the individual and society, the local and the national, the past and present, and the public and private experience. Through its various activities, the subject aims to air such topics for both academic and ‘general’ audiences, especially through a consideration of how life writing contributes to our broader cultural heritage.

Typical availability
Spring semester, City campus

57163 Non-fiction Project Development
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57031 Non-fiction Writing AND (57061 Issues in Documentary OR 57162 Memory and Life Writing) AND 8 credit points of completed study in SMJ10042 Media Arts and Production sub-major
There are also course requisites for this subject. See access conditions.
This subject requires students to plan and structure their major project through research and development, and in consultation with their allocated academic advisor. The subject is conducted by individual guidance and group work, and students are required to regularly present the progress of their research and development throughout the semester. Students critically explore the most appropriate and effective methods for realising their substantial work of non-fiction.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57164 Non-fiction Writing Project
16cp; availability: not offered to exchange and study abroad students
Requisite(s): 57031 Non-fiction Writing AND 57061 Issues in Documentary AND 57162 Memory and Life Writing AND 57163 Non-fiction Project Development
There are also course requisites for this subject. See access conditions.
This subject requires students to synthesise the knowledge and skills they have developed in the Master of Arts in Non-fiction Writing. The completion of a substantial work of non-fiction writing is the capstone of the course, and demonstrates the students’ ability to work professionally and independently. On completion of this subject, students are expected to be able to demonstrate high-level skills in researching, developing, structuring and completing a major written project in a selected non-fiction genre. Students respond to critical feedback throughout the supervision of the process, to re-write and edit their work.

Typical availability
Autumn semester, City campus
Spring semester, City campus
57165 True Crime
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57041 Advanced Narrative Writing OR 57031 Non-fiction Writing
This subject focuses on true crime writing. Students are asked to engage with the history, contexts, conventions and contemporary debates around the notion of true crime. The subject aims to develop students’ awareness of the wide possibilities and scope of writing creatively in the true crime genre, and to produce an extended piece of true crime writing in a workshop environment.

Typical availability
Spring semester, City campus

57166 Documentary Production
8cp; availability: not offered to exchange and study abroad students
This subject explores conceptual and production approaches to documentary media forms. Students are introduced to key documentary modes, and examine documentary strategies and forms from photo essay to video and sound documentary, to emerging online and interactive documentary. Students undertake a series of hands-on exercises to advance their skills in producing, directing, shooting and editing for documentary. They also take a short documentary from idea to treatment. Throughout the subject, students investigate the issues facing media producers seeking to work with the creative interpretation of reality.

Typical availability
Spring semester, City campus

57167 Moving Image
8cp; availability: not offered to exchange and study abroad students
This subject introduces students to the creative challenges and technical demands of making moving images using a range of digital imaging technologies. The subject explores essential concepts and craft skills needed for moving image production in fields such as camera, lighting, directing, sound recording and editing. Students are introduced to concepts of montage, rhythm, juxtaposition and structure, in addition to learning practical skills connected with editing audiovisual media. The subject is structured to encourage students to learn through hands-on learning, experimentation and collaboration. The delivery of the teaching and learning is through a series of seminars, in-class and out-of-class exercises, and practical workshops. While introductory in assumed knowledge, the subject is designed for postgraduate-level students who are interested in developing moving image production skills.

Typical availability
Autumn semester, City campus

57168 Sound and Interaction
8cp; availability: not offered to exchange and study abroad students
In this subject students explore the history, theory and production of new media and sound, involving key historical sound texts, contemporary audio practices, the rise of interactive new media forms and the emergence and impacts of social media, podcasting and other approaches. Students research and examine a range of creative works involving sound and interaction, and utilise social media tools to investigate aspects of sound and digital media culture and production. Students develop basic production skills in audio recording, mixing, and online media development. Students also develop critical, conceptual and technical skills, producing a series of short works with audio and online outcomes.

Typical availability
Spring semester, City campus

57170 Sound and Interaction
6cp; availability: not offered to exchange and study abroad students
In this subject students explore the history, theory and production of new media and sound, involving key historical sound texts, contemporary audio practices, the rise of interactive new media forms and the emergence and impacts of social media, podcasting and other approaches. Students research and examine a range of creative works involving sound and interaction, and utilise social media tools to investigate aspects of sound and digital media culture and production. Students develop basic production skills in audio recording, mixing, and online media development. Students also develop critical, conceptual and technical skills, producing a series of short works with audio and online outcomes.

Typical availability
Spring semester, City campus

57171 Writing for the Screen
8cp; availability: not offered to exchange and study abroad students
This subject focuses on true crime writing. Students are asked to engage with the history, contexts, conventions and contemporary debates around the notion of true crime. The subject aims to develop students’ awareness of the wide possibilities and scope of writing creatively in the true crime genre, and to produce an extended piece of true crime writing in a workshop environment.

Typical availability
Spring semester, City campus

57172 Advanced Moving Image
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57167 Moving Image OR 57094 Film and Video 1
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject extends and develops ideas, concepts and technical skills in the context of team-based media production workflows. Students further their understanding of the techniques and conceptual skills required for professional moving image production through a series of seminars, in-class and out-of-class exercises and practical workshops. These skills include film and digital cinematography, data wrangling, production design, directing, location sound recording and production management. Students are introduced to advanced moving image acquisition and hands-on exercises are designed to take students through the technical and conceptual issues involved in realising an idea through moving images. The subject stresses the importance of collaboration in professional media production and students learn skills that help them to be effective crew members and work as part of a creative team. The subject enables students to develop production skills as a basis for future media projects.

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
57173 Advanced Post Production
8cp; availability: not offered to exchange and study abroad students
Requisites: 57167 Moving Image OR 57094 Film and Video 1
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject extends and develops ideas, issues, concepts and techniques around post-production, and the concept of the editor as creator of the story. Students further their understanding of these skills in the context of team-based media production workflows through a series of introductory seminars, in-class and out-of-class exercises, and practical workshops. These techniques and theories include non-linear editing, special effects, title design, sound design, data management, collaborative workflow, and a broad range of delivery formats including digital. The subject introduces students to advanced pre-visualisation and post-production techniques involved in various production formats. The subject stresses the importance of collaboration in professional media production and students learn skills that help them to collaborate with directors and producers, working as part of a creative team. The subject enables students to develop post-production skills as a basis for future media projects.

Typical availability
Spring semester, City campus

57175 Creative Producing
8cp; availability: not offered to exchange and study abroad students

This subject introduces students to the role and strategies of the creative producer in fields spanning animation, games, film and television, installation art, and cross-media works. Students examine the key issues and concerns of producers working in the creative industries in varying local, national and international contexts. Students are also introduced to key concepts and approaches to funding and finance; marketing and distribution; intellectual property and copyright; budgeting; collaboration; creativity; and sustaining a fruitful and viable creative practice. The subject also covers the pitching of short project proposals. Following a series of introductory in-class seminars and guest lectures, students complete a learning contract outlining their proposal for the remainder of the semester. Typically, this involves a case study and an in-class presentation about a working creative producer. It also involves a self-directed research assignment based on a media, art or industry matter identified by the student. These research findings are presented to the whole class and, where feasible, are also published or presented to other students and media, art or industry bodies.

Typical availability
Spring semester, City campus

57176 Directing
8cp; availability: not offered to exchange and study abroad students

The subject explores the role of the director, with an emphasis on narrative drama. The teaching and learning of the subject is delivered through a series of seminars, in-class and out-of-class exercises, and practical workshops that are designed to develop students’ skills as directors. Through a focus on visual storytelling, mise-en-scène, performance and script analysis, the subject explores techniques to elicit performance and determine visual style and coverage relevant to a variety of filmed scenes.

Typical availability
Autumn semester, City campus

57177 Media Arts and Production Minor Project
8cp; availability: not offered to exchange and study abroad students

In this subject, students have the opportunity to develop their professional skills and creative expertise in media arts program making. Students may choose to develop their professional practice through undertaking specialised technical or production roles on other student projects and profiling this work through a resulting show reel or equivalent. For example, students may work as producer, cinematographer or sound designer on a film or video project. Students develop a learning contract that is approved by their allocated academic adviser.

Students may choose instead to complete a short original minor media project in film, video, television, online, sound, radio, performance and installation or multi-platform. The project must be feasible and be able to be completed within one semester. A drama project should not exceed 7 minutes in length. The proposed minor project must be approved by the academic adviser. Students are required to submit critical documentation (approximately 1500 words) of their research, production development and production process to accompany the final project. This documentation should show evidence of the student’s critical relationship to their media production practice.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57178 Digital and Multiplatform Storytelling
8cp; availability: not offered to exchange and study abroad students

This subject allows students to develop their conceptual and production skills in digital multiplatform production such as for online, mobile, social media, transmedia, locative, serious games, e-book, electronic publishing and other emerging media formats. Building on earlier knowledge, students explore a range of creative, technical and production issues concerning digital multiplatform content and project development. Students engage conceptually with multiplatform issues such as user experience, user interaction, multiplatform project scoping and digital treatment development. They expand their production skills through a series of technical workshops and by working in small teams to develop a multiplatform creative work, such as for transmedia, online, social media, locative, mobile, e-book or other outcomes. Where feasible, students are encouraged to work on the production of media projects produced in other postgraduate subjects in the Faculty of Arts and Social Sciences.

Typical availability
Spring semester, City campus

57179 Project Development and Creative Practice
8cp; availability: not offered to exchange and study abroad students

This subject develops advanced skills for the research and development of creative media projects. Students learn to take an idea through research to a form ready for production. In this subject students workshop scripts and develop skills in production design and planning. They also develop advanced skills in research and development in media arts through one of the following: by developing specialised knowledge of a particular technical or production area of the media industries; through research and writing a detailed treatment or script for a creative project intended to be taken into 57177 Media Arts and Production Minor Project, 57180 Media Arts and Production Major Project, or intended for production after the subject or through undertaking creative led research into an area of innovation that experiments with the interplay between media forms. The subject is taught by a combination of seminar and learning contract. Students are required to complete seminar assignments and present the progress of their research or development during the seminar. Students are required to work in a crew role on at least one project in production during the semester.

Typical availability
Spring semester, City campus

57180 Media Arts and Production Major Project
16cp; availability: not offered to exchange and study abroad students

In this subject students complete an original short project in film, video, television, online, sound, radio, performance and installation or multi-platform. The completed project should demonstrate the student’s advanced professional skills and creative expertise. The project must be successfully completed during the semester, although it may have been developed and commenced during the Research and Development subject or equivalent Scriptwriting subject. It must be feasible to be produced within the resources available both through UTS and those provided by the student from outside UTS. The proposed project must be approved by the academic adviser. Students are required to submit critical documentation (approximately 3000 words) of their research, production development and production process to accompany the final project. This documentation should demonstrate the student’s critical relationship to their media production practice. This subject differs from Media Arts and Production Minor Project in that it is expected that the completed project work is conceptually and creatively challenging. The production and/or post-production process should be considerably more demanding and the resulting project should show evidence of the student as a media arts program maker. The subject is conducted by individual or small group supervision.
870

Typical availability
Autumn semester, City campus
Spring semester, City campus

57181 Recordkeeping Fundamentals
8cp
This subject provides an overview of the key concepts and practices in recordkeeping and the role of records and recordkeeping systems in an organisational and societal context. Students are introduced to theoretical frameworks of the record life cycle and the record continuum as well as the key components of a best practice recordkeeping system within the current Australian legal and regulatory environment. Key recordkeeping practices and tools such as functional classification, metadata schema, records retention and disposal, implementation methodologies and records management policies and processes are explored with reference to current best practice.

Typical availability
Autumn semester, City campus

57182 Rethinking Media
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 57023c  Communicating with Publics  AND  57022c  Foundations of Communication
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

In this subject, students explore the roles and functioning of media in society and engage in critical thinking about media models from ‘mass media’ to ‘social media’ and social networks. They review major frameworks for understanding media including the First Media Age and Second Media Age, and examine key concepts from the various traditions of media studies focused on media ownership and control, media texts, media technologies, media effects, media audiences, and media practices. They investigate dysfunctions as well as functions of media, and contemporary shifts such as interactivity, convergence, and hybridisation, as they explore ways in which media are used in the public sphere, for cultural production, and for public communication by organisations. Students read about media, consume media, analyse media, and produce media as part of their learning, including engaging in online research and contributing to an online forum and blog.

Typical availability
Spring semester, City campus

57183 Soundtrack
8cp
This subject focuses on the design and composition of sound for moving image, radio and digital media. Emphasis is placed on location sound recording, track laying and mixing dialogue, effects and atmospheres for both synchronous and non-synchronous media, and critical listening. As a project, students undertake a collaborative work to develop a soundtrack from design to final mix. To facilitate this students are encouraged to work on the soundtrack of projects produced in other subjects of media arts and production, either from the undergraduate and postgraduate project subjects or an assignment as set by their lecturers.

57184 Documentary: Expanded, Mobile and Networked
8cp
This subject allows students to develop their conceptual and production skills in expanded forms of documentary involving social media, online, mobile and app formats. The subject will explore new modes of conceptualising, producing and distributing documentaries; covering online documentary, social media, mobile and locative projects and other relevant emerging technologies and formats. Building on earlier knowledge, students will explore a range of creative, technical and production issues concerning expanded online documentary production. They will develop production skills in new modes of storytelling, publishing and distribution that online, networked and app formats make possible.

57185 Journalism Major Project 1
8cp
Students commence plans to produce an original project that links professional practice and research in journalism. This is the first of a pair of major-project subjects. Students will scope their research and professional-practice project. Expert panels which consist of industry practitioners, HDR students and academics will assess and advise on project plans. The panels will review sources, consider production techniques and assist in story development.

57186 Journalism Major Project 2
8cp
Students produce an original project that links the professional practice of journalism with research relevant to that journalism. The project is designed to meet the professional and academic goals of the student. It can be produced in any media and draw on a wide range of journalism genres and formats. It builds on skills and knowledge that have been developed in both professional journalism and scholarly subjects undertaken in the degree.

57187 Specialist Journalism
8cp
This subject aims to flexibly develop analysis and/or advanced practices in professional journalism. It allows journalism students to critically engage in issues relevant at particular and appropriate points of time; generated by national or international events, political, social or economic developments, debates, data or document releases. Students work to deadlines, creating scholarly works and/or researching and reporting stories for journalism publications.

57188 Writing Project 1
8cp
This subject is designed for students who have substantial experience in writing and are ready to work independently. Working under the supervision of an appropriate member of staff, students devise, research, and draft a substantial (7,500 words or equivalent) work of creative writing, which will be completed to 15,000 words and polished to a high standard in Writing Project 2. The writing may be in any genre, depending on the viability of the project and the availability of academic advice. Students are encouraged in this subject to explore and extend, through reading and redrafting, the possibilities of their chosen form and genre. They are also encouraged to independently form their own writing groups in which to discuss their work.

57189 Writing Project 2
8cp
This subject is designed for students, having completed Writing Project 1, who have substantial experience in writing and are ready to work independently. Working under the supervision of an appropriate member of staff, students complete and polish their 15,000-word (or equivalent) creative project to a high standard (this 15,000 words includes the 7,500 words or equivalent undertaken in Writing Project 1, though these may be substantially rewritten, if desirable). The writing may be in any genre, depending on the viability of the project and the availability of an appropriate supervisor. Students are encouraged in this subject to explore and extend the possibilities of their chosen form and genre. They are also encouraged to independently form their own writing groups in which to discuss their work.

57190 Writing Seminar
8cp
This is an advanced subject for students in the Master of Arts in Creative Writing. It brings together graduate writing students from a number of areas to workshop their own and each others’ creative work, provide and receive productive feedback on work-in-progress, and to explore aspects of contemporary writing practice and theory that are both directly related to and/or challenge their own practice. It also prepares students for independent professional practice as writers.

Access conditions are available in the individual subject descriptions in the online handbook.
57989 Mise-en-Scene
8cp
Graduate subject – Media Arts and Production – 400 level
In this subject, students develop advanced skills in visual style. Students have the opportunity to examine mise-en-scéne in a range of audio-visual screen works. They study in depth the inter-relationship of elements which comprise a particular style and the way this contributes to genre. Through individual research, seminar presentations and production exercises, students develop skills in planning a visual and sound style for their film, video or new media work.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57994 Managing Organisational Communication
8cp; availability: not offered to exchange and study abroad students
In this subject students develop their understanding and capacities for working in an internal communication management role. They develop strategies for employee/member communication for an organisation and produce plans and budgets for their implementation. Students address the strategy by creating e-newsletters for internal organisational publics, demonstrating their writing and design skills and their understandings of internal issues identification and management.

Typical availability
Autumn semester, City campus

57995 Learning in Organisations
8cp; availability: not offered to exchange and study abroad students
This subject seeks to orientate students to current practices in organisational learning. It examines the various theories of organisational learning from the perspectives of the individual, organisational unit and whole organisation. The application of these theories to organisations in various sectors is building. The body and case studies of organisational learning are used to illustrate the impact of organisational learning on the long-term performance of the organisation. The future of organisational learning in the contexts of economic, social, demographic and technological change is also examined.

Typical availability
Spring semester, City campus

57996 Marketing and Corporate Communication
8cp; availability: not offered to exchange and study abroad students
In this subject students focus on integrative communication strategies that link stakeholders to an organisation. They examine the intersection of public relations and marketing. They research, design, plan and budget integrated communication strategies for clients in the commercial and not-for-profit sectors. Campaigns may include product promotion, social marketing or corporate identity and reputation.

Typical availability
Autumn semester, City campus

57997 Professional Communication Project
8cp; availability: not offered to exchange and study abroad students
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject allows students to pursue further studies in their area of professional and/or scholarly interest in the field of communication management. Students further develop their critical and analytical skills in communication management appropriate to working in consultancy and advanced management roles, extend and deepen their conceptual understandings of communication management, and develop competencies in research and theory building. The body of work undertaken may include an internship or critical production or a small independent research project and a reflective journal. The project enables students to link their professional work to the theories and skills covered in modules undertaken during the subject. The reflective journal provides a framework for developing the ability to reflect critically on practice through the application of different models of reflection.

Typical availability
Autumn semester, City campus
Spring semester, City campus

57999 Digital and Multiplatform Storytelling
8cp; availability: not offered to exchange and study abroad students
This subject allows students to develop their conceptual and production skills in digital multiplatform production such as for online, mobile, social media, transmedia, locative, serious games, e-book, electronic publishing and other emerging media formats. Building on earlier knowledge, students explore a range of creative, technical and production issues concerning digital multiplatform content and project development. Students engage conceptually with multiplatform issues such as user experience, user interaction, multiplatform project scoping and digital treatment development. They expand their production skills through a series of technical workshops and by working in small teams to develop a multiplatform creative work, such as for transmedia, online, social media, locative, mobile, e-book or other outcomes. Where feasible, students are encouraged to work on the production of media projects produced in other postgraduate subjects in the Faculty of Arts and Social Sciences.

Typical availability
Spring semester, City campus

58101 Understanding Communication
8cp
In this foundation subject students investigate the role of communication in society and the different ways in which communication is understood and practised interpersonally, socially, culturally and professionally. Students examine communication from the perspectives of writers, producers, journalists, creative artists, advertising and public relations practitioners, information managers, and from social, cultural and political perspectives. The interrelated roles of authors/producers, audiences, texts and contexts are explored through research, reading, projects and discussions. Students also gain practical experience through conducting interviews and presenting their findings in writing, photography and video, and in various online forms using digital media.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58102 Language and Discourse
8cp
This subject introduces three key communication concepts, develops a thematic study and teaches skills in the medium of sound. The concepts are Discourse, Genre and 'Multimodality'. Through multimodal analysis and practice, students understand communication as combinations of representations, cultural forms and specific communicative resources (verbal and non-verbal, visual and auditory, etc), assembling complex relations of thoughts and feelings. The thematic research explores the different ways in which important social and cultural issues are represented in a range of media. Students extend their learning by experimentation in multimodal writing in different genres, such as 'report', 'story', argument', 'appeal', etc, and they reach out for different audiences with sound practice. The subject equips students with the concepts and methods to reflect critically on their own experience of language phenomena through the issues systematically explored.

Typical availability
Autumn semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/10/7OBvBxXCrCE
- Academic video: www.youtube.com/user/utschannel#p/u/20/PzDnAVZ9ISA

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
58103 Ideas in History
8cp
This subject engages students in critical examination, discussion and reflection on some of the key ideas and intellectual movements in world history and how these inform current social, cultural, economic and political thought and practice. In particular, it explores how ideas and worldviews frame and influence communication socially, culturally and politically. Students explore non-Western as well as Western ideas and viewpoints and ways of understanding human history including those ideas and intellectual traditions associated to the categories of the 'modern' and modernity, the 'post-modern' and post-modernity and 'tradition' – culture, custom and community. These are examined through various themes from multiple cultural perspectives and activities which include those based in museums and other sites where ideas and their histories are represented.

Typical availability
Autumn semester, City campus
Spring semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
• Student video: www.youtube.com/watch?v=fjA9bR12JRU
• Academic video: www.youtube.com/watch?v=RRGQvBdU0S0

58110 Introduction to Journalism
8cp
Students are introduced to principles of professional journalism and its theoretical and ethical dimensions. Students examine the practice of journalism in relation to its historical, economic, political and social contexts with a focus on the impact of the internet on contemporary news media practice. Students research and produce original news stories to deadline and build online ePortfolios. They are introduced to Newsday, the real-time UTS newsroom. Through a critical examination of the process of research and reporting, students develop the rigorous skills required for journalism in the public interest.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58111 Reporting with Sound and Image
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58110 Introduction to Journalism
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The use of sound and image in journalism professional practice is explored. Students develop their sound and video recording, interviewing, writing and editing skills to produce short news and current affairs reports for broadcast media. Students build an understanding of how changes in online media are impacting on audio/visual journalism. They critically analyse professional and ethical issues that arise in the context of broadcast journalism, including their own. The relationship between publishing formats and storytelling is explored. Students develop ideas and produce current affairs reports, drawing on a range of sources and build on basic news reporting, both in form and content. Students edit, package and publish reports on NewsDay.

Typical availability
Spring semester, City campus

58112 Reporting and Editing for Print and Online Journalism
8cp
Requisite(s): 58110 Introduction to Journalism
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject develops skills in research and reporting and introduces editing for online and print media. Students extend their abilities as reporters by developing more advanced research skills and interviewing and writing techniques appropriate for the production of longer stories. Students are introduced to basic skills and strategies for the editing and publishing of stories for publication. They learn to shape stories for specific audiences by writing introductions, headlines, captions and adding links and other online elements. Students develop an appreciation of the importance of accuracy and clarity for publishing and consider ethical and legal implications that arise during the publishing process. Throughout the semester, students develop their ability to critically analyse contemporary news and current affairs practices in local and international contexts. They publish reflections on their own and others' journalism practice in their ePortfolios. Students research, write and edit stories to deadlines in a newsroom environment.

Typical availability
Spring semester, City campus

58113 Exploring Media Arts
8cp; availability: exchange and study abroad students with faculty approval.

This subject explores creative media arts practices across moving image, audio and participatory forms. It introduces students to relevant media arts histories and contexts in addition to a range of technologies, media practices and production techniques. Each semester is based around a specific theme, such as time, speed, place or memory, which is explored through creative play. Working on creative exercises, students are introduced to core skills and understandings in media arts practice. They gain basic skills in synopsis writing, production planning, content gathering in image and sound, mixing and editing, safety issues, and collaborative work practices. Students publish and reflect on their creative practice online, a process which is continued in subjects throughout the major.

Typical availability
Autumn semester, City campus

58114 Fictions: Storytelling, Narrative and Drama
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58113 Exploring Media Arts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject is an exploration of narrative storytelling and drama in media. Students are introduced to narrative forms in media including concepts of structure, suspense and drama along with scriptwriting for narrative works. Student learning in this subject focuses on ways of working with the interplay between visual and aural style, and performance and narrative form across a variety of media. Assessment tasks include writing concept documents for media projects, group narrative exercises and online reflection and self and peer feedback.

Typical availability
Spring semester, City campus

58115 Composing the Real
8cp
Requisite(s): 58113 Exploring Media Arts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject explores conceptual and production approaches to documentary media forms. Students are introduced to key documentary modes and examine and develop documentary projects involving a range of outcomes from photo essay to video and sound documentary to emerging online and interactive documentary projects. Activities include short documentary exercises across a range of media and the development of a short documentary treatment. Hybrid forms and boundary blurring such as reality TV, blogging and other cross-overs between fiction and non-fiction are also examined. Throughout the subject, students investigate the issues facing media producers seeking to work with the 'creative interpretation of reality'.

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
58116 The Ecology of Public Communication
8cp
Students explore the field of public communication and the major areas of practice. They gain an understanding of the role of communication in the public sphere, of audiences, environments and contexts of communication, including professional communication practices and issues around integration and convergence. Students learn how public communication, public relations and advertising are conceptualised and practised in various types of organisations and interest groups including organisational communication and marketing communication. They explore issues and controversies in the field such as social representations, agendas and advocacy. Students also begin to produce their own work in advertising, public relations and organisational communication including using new media.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58117 Principles of Public Relations
8cp
Requisite(s): 58116 The Ecology of Public Communication
These requisites may not apply to students in certain courses. See access conditions.
In this subject, students learn about theories, models and principles of contemporary public relations, tracing the historical evolution from technical function to strategic management. Major areas of employment such as media, community and stakeholder relations, public sector and internal communication are reviewed. Case studies and professional issues are used to analyse current practice, developing understanding of ethics and socially responsible practice. Students are introduced to writing and research skills essential for practice.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58118 Principles of Advertising
8cp
Requisite(s): 58116 The Ecology of Public Communication
These requisites may not apply to students in certain courses. See access conditions.
Students are introduced to the principles and practice of advertising and its unique role in business and society. Creativity in advertising is examined through an exploration of the art and science of advertising and how these apparent contradictions influence principles and industry practice. Students learn how to develop and present a range of creative ideas appropriate to the various stages of effectively promoting a product, service or idea in sectors as diverse as public, private and not-for-profit.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58119 Text and Context
8cp
Students engage with a critical study of key modern concepts of writing, reading and contemporary culture. Issues central to the subject include the concept of representation, the nature of cultural texts, the theorisation of text and textuality within the post-modern and post-structuralist formation and the emergence of interactive forms of writing and their influence on writing. Critical study in the subject engages with theories of thinking and writing and recent and historical debate to do with what constitutes form, style and structure in both traditional and experimental formats. Students work creatively with a wide range of contemporary texts and explore different ways of writing. They write and read critically within the context of contemporary cultures and come to understand a wide range of traditional and non-traditional forms of writing.

Typical availability
Autumn semester, City campus

58120 Creativity and Culture
8cp
Requisite(s): 58119 Text and Context
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject prepares students with a reflective knowledge about contemporary directions and debates in current creative practice. Students research, design, write and publish a creative project in essay, non-fictional or fictional form. They analyse a range of different perspectives (philosophical, psychological, inspirational and practical) on the connection between creativity and invention and on generic forms of creative, essayistic, fictional and non-fictional writing. Theories of narrative and voice, relationships between identity, subject and the representation of the self in the creative text, as well as contemporary approaches to the essay and to experimental forms of critical discourse, are discussed throughout the subject. Students respond to these contexts in the creative work they complete during the semester.

Typical availability
Spring semester, City campus

58121 Fictional Forms
8cp
Requisite(s): 58119 Text and Context
These requisites may not apply to students in certain courses. See access conditions.
Students are brought into close contact with creative practice in both mainstream and emergent forms of fiction and narrative as they investigate the question ‘what is fiction?’. The subject introduces a wide range of recent and modern forms of fiction writing as technical examples and thematic models. Throughout the semester students produce and collectively workshop their own writing in fiction or script. At the same time, critical debate within the class explores the limits and the possibilities of the contemporary text together with the functional operation of categories such as ‘author’, ‘genre’, ‘narrative’, ‘performance’, ‘subjectivity’, ‘meaning’, ‘reading’, ‘writing’ and ‘text’, including in relation to innovative formats such as hypertext or other electronic formats. Students are encouraged to choose within a wide range of fictional forms for their creative writing.

Typical availability
Spring semester, City campus

58122 Introduction to Social Inquiry
8cp
How do we understand the structure and changing nature of the social world? This subject provides an introduction to key ideas in social and political thought which enable the critical interpretation of social life. It focuses on concepts such as gender, race and social class, and explores how they can be applied to understand society and the life-paths of individual social actors. As a corequisite of the subject, students undertake their own empirical biographic or ‘life-story’ analysis as a vehicle through which to begin to develop their social research skills and to concretely explore the ways the social structures explored shape the possibilities of individual agency.

Typical availability
Autumn semester, City campus

58123 Society, Economy and Globalisation
8cp
Requisite(s): 58122 Introduction to Social Inquiry
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
To understand the problems of global society and develop possible solutions, political power and the economic problems of wealth and poverty interact must be understood. This subject addresses global business, as a class formation, assesses its influence on policy making and interrogates free-market ideology. It looks at the way transnational corporations influence political institutions and governance, and considers alternative goals for social development, such as equity and sustainability. A snapshot of international trade is developed, with students focusing on a specific commodity, such as coffee, soy or uranium, to chart its passage through global society. These global value
chains are explored from sites of extraction to manufacture, retail, consumption and disposal. Social, political and ecological impacts are highlighted using quantitative and qualitative data drawn from internationally available data sets. Students use insights gained from these investigations to explore popular perceptions of globalisation and consumer culture, and of the globally traded commodities by which we are made interdependent. Throughout the subject, students consider the problem of measurement in the social sciences, and the way measurements and statistics are made and deployed as evidence in policy debates.

**Typical availability**
Spring semester, City campus

58124 Local Transformations  
8cp  
Requisite(s): 58122 Introduction to Social Inquiry  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The way we think about relationships between the individual, local community life and the wider social order is addressed in this subject through investigation of the intersections between time, place and agency. Students investigate issues such as how the historical legacies of locality are connected to present possibilities and future hopes, how localities are produced in relation to each other in cross-national and trans-local interactions, and how local capacity or agency is linked to local, national and transnational power hierarchies, whether in terms of dominance or marginality. This subject introduces students to survey research methods. Students engage a range of theoretical approaches and integrate them with survey methods, developing communication skills to present resulting insights.

**Typical availability**  
Spring semester, City campus

58125 Creative Information Design  
8cp  
This subject introduces students to the principles of creative information design: audience analysis, contextual writing, colour, typography and layout. Students design, create the content and produce for selected clients useful information products in a range of digital and non-digital formats and media. The design process introduces students to creative problem-solving, collaborative work practices and the principles of usability and self-assessment. Students begin the development of their course-wide ePortfolio which contains examples of work such as specialised written texts, brochures, images and webpages.

**Typical availability**  
Autumn semester, City campus

58126 Information Discovery and Analysis  
8cp  
Requisite(s): 58125 Creative Information Design  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students are introduced to a range of techniques that enable them to conduct sophisticated searches and analysis in digital environments. Using case-based approaches and a real-life scenario, they learn to apply these skills to a particular problem. By analysing and reflecting upon approaches to the execution of searches as well as the significance of the content of information located through these searches, students develop an understanding of information systems and an appreciation of their strengths and current limitations. To develop an understanding of potential strategic uses of information, they learn how to analyse information to create compact syntheses that suit the needs of different audiences in different contexts. In a collaborative learning environment, students also critically examine themes associated with information practices in a digital world. Students continue to contribute to their course-wide ePortfolio.

**Typical availability**  
Spring semester, City campus

58127 Information Cultures  
8cp  
Requisite(s): 58125 Creative Information Design  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students are introduced to the conceptual and methodological tools they need to actively engage with the organisations and communities they will work with in the information, communication and creative industries. They develop a critical understanding of the complex interrelationship between people, information, knowledge and culture and of the central role of theory and research in effective professional practice. The subject introduces students to theories and empirical research from a range of disciplines including information behaviour, communication theory, philosophy and sociology, as well as to a range of research methodologies for exploring and analysing both individual and collective information/knowledge behaviour and practices. Students apply their theoretical and methodological learning to the development of a practice-based pilot research project. In doing so, students develop an appreciation of the importance of practice-based research as the basis for research-based professional practice. Students make further contributions to their ePortfolio.

**Typical availability**  
Spring semester, City campus

58128 Strategic Public Relations  
8cp; availability: exchange and study abroad students with faculty approval  
Requisite(s): 58117c Principles of Public Relations  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject equips students with knowledge and practical skills in research, planning and budgeting for strategic communication campaigns. They learn to assess and develop strategy by identifying issues, publics and options for communication and relationship management. They develop their expertise in designing, writing and managing innovative, multimedia campaigns to address client and communication problems and opportunities. Students design and present a professional client pitch.

**Typical availability**  
Spring semester, City campus

58129 Advertising Campaign Practice  
8cp  
Requisite(s): 58118c Principles of Advertising  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students gain insight into the various agency disciplines and their contribution to campaign research and strategy, creation and production of ideas, media planning, and pitching as an agency team. Topics include the significance of strategic planning in campaign development, conceptual issues involved in the production of advertising ideas, and the development and selling of an integrated campaign to a client. Students engage in scriptwriting and the production of storyboards for broadcast media.

**Typical availability**  
Spring semester, City campus

58201 Communication and Cultural Industries and Practices  
8cp  
Requisite(s): 58101 Understanding Communication OR 58102 Language and Discourse OR 58103 Ideas in History  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Looking back and forth between theory and practice (individually and collectively), this subject examines ways that media, information and communication figure in our everyday practices. It examines the development of the communication and cultural industries and practices with a particular focus on current practices and technologies of convergence, and on ways of theorising and understanding the
relationship between producers, texts and audiences. Students are introduced to practice and the roles of communication professionals in different contexts. The subject provides an overview of important historical and political developments within communication and cultural industries, critically interrogating how communication and information products are produced, in what organisational and cultural contexts, and for what purposes. The Australian situation is placed in its international context and with reference to the changing roles of digital technologies, public and private sector production/distribution and the role of governments.

**Typical availability**
Autumn semester, City campus

58202 Regulating Communication: Law, Ethics, Politics

8cp
Requisites: 58101 Understanding Communication OR 58102 Language and Discourse OR 58103 Ideas in History
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Public, organisational and everyday communication practices are shaped through laws, policies and ethical codes. Investigating and comparing different regulatory approaches tells us much about our own assumptions about communication and its role in shaping our lives. Contests over law and ethics reflect underlying social, economic and political conflicts that shape political agendas and define public policy. The subject explores communication regulation in a range of Australian and international contexts and from historical and cross-cultural perspectives. Students investigate how codes and laws relate to communication practices by selecting from a range of topics such as defamation, censorship, intellectual property, privacy, data protection, surveillance, racial vilification, whistle-blowing, confidentiality, freedom of information, and the role of inter-state organisations, such as the United Nations, and non-government organisations.

Students develop their practical understanding of these topics through a simulation role-playing game based on a hypothetical scenario designed to raise regulatory issues of contemporary relevance.

**Typical availability**
Spring semester, City campus

58210 Storytelling, Narrative and Features

8cp; availability: exchange and study abroad students with faculty approval
Requisites: 58110 Introduction to Journalism OR 58111 Reporting with Sound and Image OR 58112 Reporting and Editing for Print and Online Journalism
These requisites may not apply to students in certain courses. See access conditions.

This subject is designed to move students from news production to storytelling through longer form journalism, focusing on the production of features and other forms of non-fiction narrative in a range of media. Genres such as investigative and literary journalism are considered. The subject aims to give students an insight into a range of styles and their applications across the mediums and the implications for storytelling of convergence and interactivity including the ‘packaging’ of feature stories for online publication. An understanding of voice, story structure, interviewing technique, language and, where relevant, the use of visual images and sound are further developed in the context of students’ own story production. Through a reflective approach, students develop a critical appreciation of the role played by narrative and language in media discourse and how this relates to the work of journalists.

**Typical availability**
Autumn semester, City campus

58211 Specialist Reporting, Audiences and Interactivity

8cp; availability: exchange and study abroad students with faculty approval
Requisites: 58210 Storytelling, Narrative and Features
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject introduces specialist genres and ‘rounds’ in journalism. Students are introduced to investigative research techniques within specialist rounds such as environment, health, technology, arts, sports, law, media, business and politics. Students form reporting and editing teams around specific rounds. By developing their own chosen round and monitoring how the round is covered by professional journalists they develop a critical understanding and ability to develop relationships with sources, produce interactive journalism for specific audiences and work in collaborative teams.

Students build their own eportfolios and specialist reporting teams contribute to the UTS media hub by producing work using a range of media forms.

**Typical availability**
Spring semester, City campus

58212 Aesthetics

8cp; availability: exchange and study abroad students with faculty approval
Requisites: 58114 Fictions: Storytelling, Narrative and Drama OR 58115 Composing the Real
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject explores how media arts aesthetics work through engaging the senses and emotions. It provides students the opportunity to develop the potential impact of a work through experimenting with form, composition, and poetics. The subject examines how aesthetics are both culturally determined and dynamic. During the subject, students explore these ideas using techniques such as remixing and experimental approaches to composition and form. The resulting works may be cross-platform and cross-media, including installation works, time-based and interactive media, and sound art.

**Typical availability**
Autumn semester, City campus

58213 Research and Practice

8cp; availability: not offered to exchange and study abroad students
Requisites: 58114 Fictions: Storytelling, Narrative and Drama OR 58115 Composing the Real
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Students have the opportunity to develop their creative practice and capacity for critical reflection through conceptualisation, research and writing. In this subject students develop a learning contract for their work and outcomes over the semester. The focus of student learning is the individual student’s need for research and development towards their final project. The subject allows students to develop their final projects and/or to undertake research and targeted skill development towards that project. Students undertake skill and conceptual development in modules from a number of choices offered each semester. These modules have a practical and conceptual development focus where students in groups meet with a lecturer throughout the semester or in intensive mode.

**Typical availability**
Spring semester, City campus

58214 Media Writing and Production

8cp; availability: exchange and study abroad students with faculty approval
Requisites: 58117 Principles of Public Relations OR 58128 Strategic Public Relations
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Students develop knowledge and practice in writing and producing materials such as media releases, feature articles, newsletters, brochures, speeches, profiles, websites and print, and online production. The requirements of different genre and styles of public communication writing are explored together with issues rhetoric and persuasion in public relations. Students enhance their skills in writing, design production and the application of these skills to the internet. Student work integrates theories and principles of effective public communication with technical skills in their fields of focus.

**Typical availability**
Autumn semester, City campus
58216 Imagining the Real
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58119 Text and Context OR 58121 Fictional Forms OR 58120 Creativity and Culture
These requisites may not apply to students in certain courses. See access conditions.

This subject focuses on the concept of the real. Students are asked to engage with the history, contexts, conventions and current debates centred on the notion of 'the real'. Students choose different approaches to these issues in terms of creative and theoretical perspectives. The subject aims to develop students’ awareness of the wide possibilities and scope of non-fiction writing and enables them to produce an extended piece of non-fiction writing in a workshop environment. The laboratory acts as a context for researching how the notions of the real are associated with questions to do with society, culture and globalisation no less than to do with issues of subjectivity, the senses and corporeal knowledge. Each class acts as a space in which students test out received and experimental approaches to writing and thinking about the real. Truth telling, the use of fictional mode in non-fictional forms of writing, concepts of simulacrum, verisimilitude, revelation and authenticity, and the ethical contexts of documentation are key features of each class’s work. Students are asked to nominate the area in which they intend to write and are assisted in researching and contextualising that area.

Typical availability
Autumn semester, City campus

58217 Experiments in Culture
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58119 Text and Context OR 58121 Fictional Forms OR 58120 Creativity and Culture
These requisites may not apply to students in certain courses. See access conditions.

Students have the opportunity to study and write within one of the following forms: non-linear and interactive writing, poetry, critical and theoretical writing, or screenwriting for innovative film and image. This subject challenges students to create situations or events in which forms of culture are composed in such a way as to propel them into new situations, for instance to find new audiences. During the subject examples are given of how, in various other times and places, artistic and intellectual movements have gathered impetus and evolved as historical cultural forms. Students work in different workshops within these forms over the semester, sharing key readings and references. An emphasis is placed throughout the semester on original and innovative subject matter, on the capacity of the student to become familiar with and expert in the technical range of the chosen form of writing and to research its recent and longer term history.

Typical availability
Spring semester, City campus

58218 Ideology, Beliefs and Visions
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58122 Introduction to Social Inquiry OR 58123 Society, Economy and Globalisation OR 58124 Local Transformations
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Social change produces ideas but ideas also produce or prevent social change. The ideologies we live under, the beliefs we may hold and the visions to which we aspire are rooted in our experiences but they also transgress them. The capacity to change society can hinge on this ability to inspire people to action. Students examine matters such as what produces beliefs and ideologies and how they are built into coherent worldviews through successive generations, the differences between religious cosmologies, political ideologies and visions and the ways they transform peoples’ lives and the source of their potency and danger. They explore different types of ideas in the context of political ideologies, religious values and visions for a better society. Students develop and investigate a research question relevant to the role of ideas in social change, using participant observation and qualitative interviews to analyse ideational dynamics in real world contexts.

Typical availability
Autumn semester, City campus

58219 Social Change Communication
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58122 Introduction to Social Inquiry OR 58123 Society, Economy and Globalisation OR 58124 Local Transformations
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Policy making takes place in the interaction between governments, communities, business and other interest groups at local, regional, national and international levels. Contending players deploy differing communication strategies to gain influence over the policy process and its outcomes. This subject engages with the processes of communication associated with the development, contestation, implementation and evaluation of social change strategies. It encompasses activities by movements, organisations and institutions such as international and local NGOs, national, state and local governments, political parties, action groups and various groups of mobilised citizens. Students develop critical and analytical perspectives drawing on relevant theory and learn to apply them through advocacy, policy development and communication practices. Students become practised in action research and communicative advocacy and through strategic application of digital resources and media.

Typical availability
Spring semester, City campus

58220 Designing for the Web
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58125 Creative Information Design OR 58127 Information Cultures OR 58126 Information Discovery and Analysis
These requisites may not apply to students in certain courses. See access conditions.

This subject examines the conceptual and aesthetic aspects of designing for the web: creating content, writing for the web environment and designing website architecture including structuring and tagging content to enable browsing and searching, as well as developing basic skills in designing database-driven web sites and Web 2.0 technologies. Students, applying acquired web skills work both individually and in small groups to develop creative projects and exercises throughout the subject. Students also learn to critically evaluate website usability and accessibility and to reflect on issues of web-based communication. Students also make further contributions to their e-portfolio.

Typical availability
Autumn semester, City campus

58221 Social Informatics
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58125 Creative Information Design OR 58127 Information Cultures OR 58126 Information Discovery and Analysis
These requisites may not apply to students in certain courses. See access conditions.

This subject critically examines the interplay between society and technologies. Students develop an advanced understanding of the key social issues associated with the design, uses and consequences of information and communication technologies that takes into account human interaction with technology in a range of institutional and cultural contexts of development and deployment. The subject builds on understandings of the interpretation and representation of knowledge; how particular knowledges are privileged and translated; and the relationship between issues of access and power. Students develop critical analysis skills required to understand the dynamic nature of relationships affecting the transfer and use of knowledge and information in emerging social and technological contexts.

Typical availability
Spring semester, City campus
58222 Global Politics from Above and Below
8cp
World order hierarchies pattern world politics. From above, dominant Northern states, militaries and corporations reproduce the status quo. From below, social movements, non-government organisations and Southern states seek alternative models for world order. Conflicts between dominant and subordinate forces shape central issues of world politics including issues of world peace, global poverty, environmental change, international migration and women’s status. These and other issues are addressed in this subject, which aims to convey the dynamics driving change and transformation in global politics. Ways of understanding world politics from traditional international relations approaches to post-colonial and southern perspectives are evaluated against key issues and problems.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58223 Social Bodies
8cp
This subject unravels the body as the key site through which the reproduction of social structures and norms are secured and contested. The socio-biological matter of the body is interrogated, including an examination of habitual body competencies and feeling-states. The subject questions the ‘geography closest in’, setting in train a progressively broadening consideration of how body-formation is intimately linked to the formation of culture and states.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58224 Australian Pasts and Places
8cp
In this subject, students investigate the idea of ‘Australia’ through an exploration of the idea of place and the embodied pasts that become known to us through place. They study the ways in which landscape, country and spatial poetics have given rise to a particular way of imagining Australia through various disciplinary approaches. In this subject they question not just how does Australia ‘appear’ but how can we view the affective force of a placed Australia over time? They research ways in which ideas of belonging to country or attempting an embodied history challenge ideas of both place and the past as well as a unitary notion of ‘Australia’.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58225 Introduction to Film Studies
8cp
This subject provides students with a comprehensive introduction to key movements and directors in the history of cinema, and key theories and debates that have defined film studies as a discipline. Through a detailed engagement with films from a diverse range of political, historical and national contexts, students develop the vocabulary and skills to think and write about film in an informed, critical and scholarly way.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58226 Media, Mediation, Power
8cp
This introduction to media studies examines significant debates about the social, political and psychological power and effects of modern (post-WWII) media: the press, radio, television, and the internet. The course investigates what communication is and how this has changed through time. It considers how each medium uniquely mediates among key social agencies, the state, communities, and citizens. It investigates the questions: How do people use media? How do the media use people? How are the media involved in social and historical change? Through the study of individual and converging media (including television, the press and the internet), students engage with the principal theoretical approaches to understanding media and mediation, technological determinism, and the increasingly active use of digital, converging media in students’ own lives.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58227 Balancing World Views: Introduction to Aboriginal Cultures
8cp
This subject explores Indigenous and non-Indigenous peoples worldviews and draws upon a range of intellectual disciplines, Indigenous studies, history, anthropology, and sociology. The aim of the subject is to establish a critical learning framework for appreciating different ways of knowing, being and doing as explored through a backdrop of colonial and current experiences in Australia and internationally. Indigenous and non-Indigenous worldview encounters provide opportunities to examine and comprehend these experiences.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58228 Climate Change: Politics and Ecology
8cp
With climate change the ecological crisis is visible as a global crisis. Worldwide, it is already exhausting nourishing landscapes, causing extinction of species and displacements of peoples. The possibility of catastrophic climate change is now on the international policy agenda. Low-income societies are in the immediate firing-line, while global elites, about a fifth of the world’s population (including most Australians), continue to reap the benefits of carbon-intensive development. Such asymmetries raise profound issues of environmental ethics and justice. These foreground relations between species, between nature and livelihood, between generations, and between young and old, pose a fundamental challenge to notions of sustainable development. To find new possibilities and transformations, this subject engages with climate politics, from global frameworks to local actions. Students analyse climate discourses from scientists, corporate executives, social activists and governments. They investigate key sites of climate politics, such as climate governance and emissions trading, adaptation to new climate conditions, climate action, and mobilisation for climate justice.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58229 Brand Advertising Strategies
8cp; availability: exchange and study abroad students with faculty approval
Requisites: 58118 Principles of Advertising OR 58129 Advertising Campaign Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students explore consumer relationships with brands, the factors driving change and the use of brand equity models in their management and advertising strategy. A practice-based approach to consumer research develops students’ skills in using creative and experimental techniques to uncover ideas for brand advertising. Students present their recommendations for communication as an integrated campaign with creative work in two media/ channels.

Typical availability
Autumn semester, City campus
58230 Professional Advertising Practice
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58118 Principles of Advertising OR 58129 Advertising Campaign Practice OR 58229 Brand Advertising Strategies
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students examine the image of their chosen profession and the impact of social and industry perceptions on professional conduct within the advertising industry. Examining the relevant codes of conduct, legal, ethical and regulatory frameworks that govern and guide professional advertising practice, students identify the responsibilities affecting the professional pathway they plan to pursue, and assess their suitability for it. Topics include professional service firms, responsibilities to clients, career profiling, objectivity and independence, competence, public interest, integrity, confidentiality, reporting, and accountability.

Typical availability
Spring semester, City campus

58231 Organisational Communication
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58117 Principles of Public Relations OR 58128 Strategic Public Relations OR 58214 Media Writing and Production
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students develop their understanding of interpersonal, group and organisational communication. They develop knowledge of organisational culture and use metaphor as an analytical tool for understanding organisations and communicating with internal and external publics. Students apply organisational communication theory to a change scenario and develop communication strategies, including special events, issues management and internal communication.

Typical availability
Spring semester, City campus

58301 Communication Practice Project
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 58202 Regulating Communication: Law, Ethics, Politics
There are also course requisites for this subject. See access conditions.

This is the capstone subject in the BA in Communication, designed to bring together knowledge and skills gained by students throughout their entire course. Students have the opportunity to work on projects that develop creative and innovative responses to communication and/or media issues and problems. Students work collaboratively in cross-program teams which may also work with external 'clients' or partners in projects. At the beginning of the semester, a contract for the project is negotiated between the student group and their 'client'. Students need to assess their progress and write critical reflections and evaluations on the projects and project processes. There may be opportunities for students to organise symposia or conferences to present these reflections. Course professional portfolios - in electronic and other media - are finalised.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58310 Media Hub
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58210 Storytelling, Narrative and Features AND 58211 Specialist Reporting, Audiences and Interactivity
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject draws together the threads of all other subjects in the Journalism major in a final project that showcases students' skills in one or more mediums of their choice. This project includes both journalism production and critical reflection. It may include producing individual pieces of journalism, taking on individual editing and publishing roles in the UTS Media Hub or other UTS Journalism publications, or designing and producing a pilot issue of new publications. To commence the subject students produce a critical reflection of their achievements so far and develop a plan for a final project, either individual or collaborative. Each student finalises their ePortfolio for presentation at a final seminar.

Typical availability
Autumn semester, City campus

58311 Media Arts Project
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58212 Aesthetics OR 58213 Research and Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject flows from the development and research undertaken in the previous subject. Students develop and complete a small media arts project, e.g. sound, video, interactive media, installation or performance. They can consider a range of distribution modes for the project such as online, broadcast, theatrical or other hybrid models. Students may undertake this subject in a variety of ways: producing a short media work in either sound, video, interactive media, installation, performance or film with encouragement to explore the possibilities of convergent media; forming small collaborative associations and working as a team to produce a work of greater scope or complexity; or developing their skills in a specific production area or crew role and undertaking this role on several projects across the semester.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58312 Integrated Communication
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58214 Media Writing and Production OR 58229 Brand Advertising Strategies OR 58230 Professional Advertising Practice OR 58231 Organisational Communication
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Students respond to a client brief to develop a communication strategy and produce a major piece of work. Projects can be tailor-made to suit individual interests, particular fields of interest in advertising or public relations or one of their specific sub-disciplines such as social marketing, internal communication, community relations or media relations, or integrated campaigns. The industry collaboration gives students experience in working with clients and producing a major piece of communication.

Typical availability
Autumn semester, City campus

58313 Writing Laboratory
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 58216 Imagining the Real OR 58217 Experiments in Culture
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject is a laboratory in thinking, writing, the senses and experiment. Students may compose in any medium they choose: fiction, non-fiction, screen-writing, graphic or multimedia, poetry, philosophical and ficto-critical writing or other innovative forms. The laboratory is an environment of experimental elements working towards the networking of concepts, senses and practices. The group’s collaborative study offers a context in which students may choose to produce individual original works of an intellectual, creative or hybrid nature. A lecture series positions a series of core themes from cultural, critical and literary debate, stressing themes which address how we conceive contemporary experience in terms of the senses, media representations, the environment and in relation to key questions in critical, philosophical and art practice. Dissemination of student work is envisaged as a core part of the laboratory’s creative study and students present their final work in a published, electronically published, screening, exhibition, seminar or performance context.
Typical availability
Autumn semester, City campus

58314 Social Inquiry Placement
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 58220 Designing for the Web OR 58221 Social Informatics
These requisites may not apply to students in certain courses. See access conditions.

Social Inquiry works for social change at the nexus between research, advocacy, policy and communication. Accordingly, the subject culminates with the ‘real life’ challenges of a specific workplace or community-based placement designed to develop written and verbal communication skills and interpersonal relationships in a non-university setting. In this final-year subject students bring to bear the thematic insights, research capacities and communicative skills they have gained through the subject. It allows them to integrate and synthesise these abilities and, in the process, to produce a distinct and practical contribution for an external partner organisation. A discrete and manageable placement project is negotiated between the student, partner organisation and academic supervisor. Partner organisations range from state parliamentarians, government departments, commercial organisations and non-government civil society organisations including indigenous, community and campaign groups. Placements are usually undertaken as individual projects, although there is scope for collaboration.

Typical availability
Autumn semester, City campus
Spring semester, City campus

58315 Storing Objects and Artifacts
8cp; availability: exchange and study abroad students with faculty approval
Requisite(s): 58220 Designing for the Web OR 58221 Social Informatics
These requisites may not apply to students in certain courses. See access conditions.

This subject examines theories, models and techniques for storing a wide range of text and non-text digital objects in many institutional contexts, including corporate, cultural and heritage environments. Students use international and national standards and unique solutions for describing digital objects and design web-enabled interfaces for effective retrieval and display of the stored content. The subject explores a range of digital storage issues, including preservation, curatorial processes and digital rights management and Web 2.0 issues such as user-created content and social tagging. Students also make further contributions to their ePortfolio.

Typical availability
Autumn semester, City campus

58316 Sex, Race and Empire
8cp
Requisite(s): 58222 Global Politics from Above and Below
These requisites may not apply to students in certain courses. See access conditions.

Making sense of today’s globalised world means recognising the continuing impact of the flows of people, ideas and trades, as well as the conflicts, generated by colonial power relations. Decolonising Europe, this subject focuses on the innovations of and challenges to colonialism in regions around the Indian and Pacific Oceans, linking Africa, the Middle East, South Asia, Australia, SE Asia, East Asia and the southern Pacific. In colonial politics, sexual relationships often demonstrated the entanglement of gender and race in the most momentous conflicts over identity, labour, trade or borders. To explore these themes, students study in depth some of many perspectives, including those of colonised indigenous peoples; of invading ‘settlers’ moving to the countries of the colonised; of anti-colonial political and military struggles; and of diasporas, the populations dispersed by invasion, slavery, indentured labour and voluntary migration. Students deepen their knowledge of the political, economic, social and cultural processes of colonial expansion, imperialism and their links to contemporary global relations.

Typical availability
Spring semester, City campus

58317 Transnational Media
8cp
Requisite(s): 58222 Global Politics from Above and Below OR 58226 Media, Mediation, Power
These requisites may not apply to students in certain courses. See access conditions.

This subject discusses media practice in a globalising economy to question the effects of developments such as trade liberalisation, technological change and global war on the organisation and operation of media and the significance of such changes for understanding transnational communication. Students canvass the international communication and media history literature, critically engage with approaches to theorising international communication and global media practice, and explore the politics of both transnational media mega-corporations including advertising agencies and their counterpart, alternative, DIY and community-based media including the blogosphere. Students focus on the specific issues of electronic journalism and the possibility of a transnational public sphere of debate; internet advertising and the difficulties of creating viable business models in the online environment; and new forms of social networking and interaction found in virtual communities and the possibilities for new kinds of political and social engagements and media practices.

Typical availability
Autumn semester, City campus

58318 Gender, Culture, Power
8cp
In this subject students undertake a rigorous and detailed analysis of the notions of sex, gender and sexuality in a wide variety of cultural and social contexts. Students examine in depth how social and political institutions function to regulate sex, gender and sexuality, how gender analysis helps us understand contemporary social and political issues, and how gender and sexual identities are embodied and performed in everyday life.

Typical availability
Spring semester, City campus

58319 Rights and Territories
8cp
‘Rights’ – human, cultural, social, economic and political – sit centre-stage in global and local debates about justice and power. ‘Territories’ – states and nations, sovereignty and authority – are the basis upon which ‘rights’ claims are generated and pursued. This subject interrogates the historical and contemporary development of ‘rights’ and examines, in particular, the ways in which ‘territories’ are organised and disorganised (institutionally and discursively) through the politics of these ‘rights’ claims. In doing this, students engage with ideas and fields of practice that traverse legal, political, economic and social theory and institutions.

Typical availability
Autumn semester, City campus

58320 Australian Fiction
8cp
Requisite(s): 58224 Australian Past and Places
These requisites may not apply to students in certain courses. See access conditions.

This subject combines the in-depth study of Australian literature with the practice of literature. It examines key tropes in Australian fiction over the past 100 years with particular emphasis on ‘the city’, ‘the outback’, and ‘the road’. It also explores the ways in which indigenuousness, diaspora, class and gender have influenced and continue to shape Australia’s literary identity.

Typical availability
Spring semester, City campus
58321 Australian Film
8cp
Requisite(s): 58224 Australian Pasts and Places OR 58225 Introduction to Film Studies
These requisites may not apply to students in certain courses. See access conditions.
Students explore the imaginary in Australian film through the study of key moments in Australia's film history such as the revival of the Australian feature film industry in the 70s, the new wave of avant garde, documentary and feminist film practice in the 70s and 80s, and the latest wave of Indigenous and transnational filmmakers in the 90s through to the present. This subject follows on from Pasts and Places with its exploration of how we might know and therefore imagine Australia.

Typical availability Autumn semester, City campus

58322 Screening the Past
8cp
Requisite(s): 58225 Introduction to Film Studies
These requisites may not apply to students in certain courses. See access conditions.
Through a detailed engagement with a broad range of different media (including film, video, television and new media) this subject explores the various channels through which we come to know, understand and engage with the past, memory and historical experience. Drawing on extensive scholarship in the field, students analyse how, and with what effects, certain texts from the historical blockbuster to experimental video confirm, challenge and/or complicate our understanding of the past and its relationship to the present.

Typical availability Autumn semester, City campus

58323 Contemporary World Cinema
8cp
Requisite(s): 58225 Introduction to Film Studies
These requisites may not apply to students in certain courses. See access conditions.
This subject focuses on key developments in contemporary world cinema, with a particular emphasis on films that are innovative, challenging and/or experimental. Drawing closely on recent debates in film studies on the relationship between politics, aesthetics, affect and experience, students analyse and engage critically and creatively with an eclectic collection of contemporary films from a diverse range of national and cultural contexts.

Typical availability Spring semester, City campus

58324 Investigating Media, Reflective Practices
8cp
Requisite(s): 58226 Media, Mediation, Power
These requisites may not apply to students in certain courses. See access conditions.
This subject explores key research traditions and methodologies through practical projects investigating diverse media and the people who use them. Students explore approaches including semiotic methods for analysing the meaning and significance of programs and formats (such as reality television); objective and subjective approaches to audiences/consumers; how to study the ways people actively use various media in their daily lives (ethnomethodology); political economy analyses of media industries; and self-reflective and critical approaches to understanding what it means to work as a media professional in contemporary Australian media industries. In this subject, students further develop their ability to report and present research findings using research communication techniques rather than conventional essays. It provides practical experience in formulating and investigating research questions, preparing students for successful Honours-level research, and building pathways to careers in the media and in media research.

Typical availability Spring semester, City campus

58325 Audiences, Users, Publics, Communities
8cp
Requisite(s): 58226 Media, Mediation, Power
These requisites may not apply to students in certain courses. See access conditions.
This subject equips students to analyse changing concepts of the media audience and critically evaluate claims about the relationships between media and people individually and collectively. It explores magazines, newspapers, television and online and mobile media, their 'content' (such as programs, as information, as models for defining identity), the various ways they are used (such as memory supports), as agents of virtual travel, as archives, as networking tools), and considers how audiences as active 'readers' increasingly produce their own meanings from the resources the media provide. Students explore developments including 'virtual communities', virtual publics and political online activism as examples of how audiences are evolving into dynamic meaning-makers and 'producers'. This subject provides an implicitly historical overview of changing theorisations of audiences. It gives students further experience in formulating and conducting their own research focused on people's actual relationships to diverse media.

Typical availability Spring semester, City campus

58326 Australian Aboriginal Politics and History
8cp
Requisite(s): 36 credit points of completed study in C10000-C10999
These requisites may not apply to students in certain courses. See access conditions.
This subject focuses on the various ways Aboriginal people have sought to exercise power. This approach seeks to understand, through detailed case studies, the demands Aboriginal people have made since colonisation. In doing this students develop an understanding of the impact of colonisation/dispossession as it occurred at different times across NSW, the shifting and changing political rationalities and wider intellectual influences that shaped this process and how this in turn has shaped Aboriginal social, cultural, economic and political life. The subject is organised around studies of key moments in the NSW Aboriginal political rights movement/s and the changing government policy and administration of Aboriginal affairs.

Typical availability Spring semester, City campus

58327 Indigenous Futures
8cp
Requisite(s): 36 credit points of completed study in C10000-C10999
These requisites may not apply to students in certain courses. See access conditions.
In this subject students learn the normative and legal bases for the protection of Indigenous rights. The objective is not only to understand the legal and political language of Indigenous rights with a view to engaging in the advocacy and debates that promote those rights but also to think critically about these ideas and institutions. Areas investigated include comparative studies of Australian and international cases such as cultural rights, land rights and native title rights and legislation, rights and institutions of self-government, Indigenous land use agreements and joint management strategies, and economic enterprise and social development frameworks and practices.

Typical availability Spring semester, City campus

58328 The New Economy of Post-Nature
8cp
Requisite(s): 36 credit points of completed study in C10000-C10999
These requisites may not apply to students in certain courses. See access conditions.
The Western academy is organised around a fundamental distinction between nature and society. This present nature, at the heart of the current survival crisis, is independent of human action. What can this idea of nature mean in our Anthropocene era, when chemical and thermal pollution are universal, when human cells are cultured and can achieve immortality outside the body, when ‘wilderness’ exists only in legally designated protected areas, when evolution itself is driven by human caused extinctions, and the recombination and design of species to order in...
commercial laboratories? Introducing key debates at the intersection of science and technology studies and environmental policy, this subject enables students to evaluate the concepts of ‘sustainability’ and the utopian prospect of a transformation from fossil-fuelled industrial modernity to a ‘post-industrial’ mode of production, sometimes called the ‘knowledge-based bioeconomy’. Students undertake an informed critical analysis of the social, political, economic and ethical issues associated with the ‘life industries’ from the level of molecular biotechnology to global ecological management.

**Typical availability**
Spring semester, City campus

### 58329 Culture, Science and Nature
8cp
Requisites: 36 credit points of completed study in C10000-C10999
These requisites may not apply to students in certain courses. See access conditions.

The subject introduces students to the relationships between cultures and environments including theory and debates about the relationship between culture, science and nature. Drawing on cultural expressions from graphic art and imagery, film and music through to oral and literary forms, students consider how understandings of nature have been shaped by a range of cultures, including Australian Indigenous place making and perceptions of nature in religious or philosophical traditions. Students investigate changing understandings of ‘nature’, the ‘environment’ and related terms, from the early modern emergence of sciences challenging theological ideas of nature, to present articulations of a crisis of ‘the biosphere’ by environmentalists, challenging neoliberal economics. These changing conceptions of nature are considered in the light of cross-cultural comparison across Indigenous and non-Indigenous contemporary societies, inflected by class and gender, in order to analyse the ecological consequences of dominant ideas about nature.

**Typical availability**
Autumn semester, City campus

### 58723 Research Dissertation 1 (Communication)
24cp; availability: not offered to exchange and study abroad students
For subject description, contact UTS: Communication.

### 58724 Research Dissertation 2 (Communication)
24cp
Requisites: 58723 Research Dissertation 1 (Communication)
There are also course requisites for this subject. See access conditions.
For subject description, contact UTS: Communication.

### 58900 Poetry
8cp; availability: not offered to exchange and study abroad students
This subject offers students the opportunity to develop skills in writing poetry. Students write extensively and read widely in a variety of genres. Theories of modernist and modern poetry, with a special emphasis on the contemporary and the Australian context. As well as introducing aspects of traditional techniques in poetic composition, students will have an opportunity to explore their creative work across both literary and performance-based facets of writing. In the context of writing and workshop, students enhance not only their creative skills as poets but also their critical ability to edit and revise their own work and that of other writers in the class.

**Typical availability**
Spring semester, City campus

### 58901 Screenwriting
8cp; availability: not offered to exchange and study abroad students
This subject is an introduction to both the theory and practice of writing for the screen. It focuses on storytelling for a visual medium with an emphasis on the creative process, imagination, character development and structure. The process of writing a short film, from initial concept to second draft, is explored through industry-accepted stages of development and formats and through workshop. Students improve their ability to critically assess their own work and the work of their colleagues.

**Typical availability**
Autumn semester, City campus

### 58902 Writing Through Genre
8cp; availability: not offered to exchange and study abroad students
In this subject students engage with the conventions of genre, in both its broad and specific applications, building upon knowledge and skills gained in other subjects. Genre is the conceptual and structural heart of writing, either in traditional manifestations (romance, crime, fantasy) or as a blend of genres (verse narratives, literary mash-ups). Students study a range of genre writing forms, and produce and collectively workshop their own writing in a chosen genre, demonstrating both an understanding of the conventions of their genre as well as a willingness to challenge and extend it.

**Typical availability**
Spring semester, City campus

### 58999 Professional Internship
8cp; availability: not offered to exchange and study abroad students
Requisites: 40 credit points of completed study in MAJ10020 Journalism major BAccom OR 40 credit points of completed study in MAJ10021 Media Arts and Production major BAccom OR 40 credit points of completed study in MAJ10024 Public Communication major BAccom OR 40 credit points of completed study in MAJ10022 Writing and Cultural Studies major BAccom
These requisites may not apply to students in certain courses. See access conditions.

Students develop a structured industry experience project in the area of their major study. This involves the negotiation of a learning contract to identify the outcomes of such experience and to design a detailed program of activities to achieve these outcomes. Supervision is provided to assist students in identifying the capabilities they need to develop and to provide support and advice during their industry involvement. Students are assisted to reflect on their learning from experience in the workplace in the context of their chosen field of study.

**Typical availability**
Autumn semester, City campus

### 59302 Film and Popular culture 1
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This is one of four subjects specifically designed for international students in the Australian Language and Culture program. This subject examines texts and genres from popular culture (e.g. film, television, new media and internet) in order to develop both English language proficiency and a critical approach to cultural phenomena. This subject aims to develop students’ capacity to interpret and communicate in English about elements of English-speaking cultures.

**Typical availability**
Spring semester, City campus

### 59303 Film and Popular culture 2
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This subject is designed specifically for international students in the Australian Language and Culture program. It examines texts and genres from popular culture (e.g. film, television, the internet) in order to develop both English language proficiency and a critical approach to cultural phenomena. This subject aims to develop students’ capacity to interpret and communicate in English about elements of English-speaking cultures.
882

Access conditions are available in the individual subject descriptions in the online handbook.

59304 English for Academic Purposes 1
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This subject focuses on critical reading, essay writing, listening and speaking in academic contexts.

Typical availability
Autumn semester, City campus

59305 English for Academic Purposes 2
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This subject focuses on critical reading, essay writing, listening and speaking in academic contexts.

Typical availability
Spring semester, City campus

59306 Researching Australia 1
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
In this subject, students are introduced to several aspects of Australian society and culture: the Indigenous experience; aspects of rural and urban Australia; the history of migration; the development of multiculturalism; social issues and current affairs. Students use interview techniques to investigate aspects of contemporary Australian society and present their research in both seminar and written form.

Typical availability
Autumn semester, City campus

59307 Researching Australia 2
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
In this subject students are introduced to several aspects of Australian society and culture: the Indigenous experience; aspects of rural and urban Australia; the history of migration; the development of multiculturalism; and social issues and current affairs. Students use interview techniques to investigate aspects of contemporary Australian society and present their research in both seminar and written form. Students are provided with the knowledge and skills to identify and understand the sociopolitical nature of cultural diversity and how this has developed in Australian society and its workplaces. The subject investigates and analyses practical applications of approaches to working with and managing cultural diversity.

Typical availability
Spring semester, City campus

59308 Australian Society and Culture 1
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This subject is designed for international students as part of a set of subjects in Australian language and culture. In these subjects, students are introduced to several aspects of Australian society and culture: the indigenous experience; aspects of rural and urban Australia; the history of migration; and the development of multiculturalism. Students explore these aspects through film, documentaries, literature, music, art, sport events, etc.

Typical availability
Autumn semester, City campus

59309 Australian Society and Culture 2
6cp; availability: non-English-speaking background international, exchange or study abroad students who meet the requisite English proficiency score (IELTS: 5.0-6.0 overall with a writing score of 5.0; TOEFL: paper based: 510-550 overall with TWE of 3.0, internet based: 64-80 overall with a writing score of 17)
This subject is designed specifically for international students in the Australian Language and Culture program. In this subject, students are introduced to several aspects of Australian society and culture: the Indigenous experience; aspects of rural and urban Australia; the history of migration; and the development of multiculturalism. Students explore these aspects through film, documentaries, literature, music, art, and sporting events.

Typical availability
Spring semester, City campus

59330 Advertising Practice
6cp; availability: not offered to exchange and study abroad students Elective
Students are introduced to the principles and practice of advertising and its unique role in business and society. Creativity in advertising is examined through an exploration of the art and science of advertising and how these apparent contradictions influence principles and industry practice. Students learn how to develop and present a range of creative ideas appropriate to the various stages of effectively promoting a product, service or idea in sectors as diverse as public, private and not-for-profit.

Typical availability
Autumn semester, City campus

59333 Advertising Strategies
6cp; availability: not offered to exchange and study abroad students Requisites: 59330 Advertising Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Elective
This subject advances students' knowledge and understanding of principles of strategic creativity in advertising practice. It develops students' ability to analyse creative approaches and address the debate on 'award' vs. 'strategic' creativity. Students gain an understanding of advertising agency disciplines and their contribution to campaign planning, production and pitching. Topics include the significance of strategic planning in campaign development, conceptual and production issues involved in radio and TV advertising, the evaluation of advertising effectiveness, and the development and selling of an integrated advertising idea. Students engage in scriptwriting and the production of storyboards for broadcast media and develop their concepts through to finished form using current digital technologies taught within the subject.

Typical availability
Spring semester, City campus

59343 Experiencing Australian Language and Culture
6cp; intensive: 3 week intensive (weekly on campus: 4hrs a day, 4 days per week; block: 2 x 2hr day blocks); availability: non-English-speaking background international, exchange or study abroad students who meet the requisite IELTS score Undergraduate
This is one of five subjects specifically for international students in the Australian Language and Culture program. This subject consists of two components: the in-class segment, and facilitated field trips to specific sites in order for students to develop a deeper understanding of Australian society and culture.

60101 Chemistry and Materials Science
6cp
This subject develops a solid science foundation for further materials and engineering-related studies and facilitates the working relationship between engineers, materials scientists and other scientists; an ability to identify and solve chemical and materials
60901 Advanced Communication Skills in Science
6cp
The aim of this subject is to provide incoming postgraduate science students with integrated academic language skills, in both written and oral communication, and text-based research skills. Students are encouraged to take a critical/analytical approach to the understanding of literature and to gain experience in written and spoken communications appropriate for different professional contexts.

In particular, the subject focuses on critical reading skills: effective paraphrasing and summarising; selecting, evaluating and using a variety of sources of information; citation and referencing of literature; developing written arguments; presenting seminars; text drafting and editing; and the preparation of various professional documents (journal articles and reviews, grants, technical reports etc.). Workplace communication and familiarity with media information skills are also addressed.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/watch?v=c-J6eOXoIPuE
- Academic video: www.youtube.com/watch?v=1sxKMBFAn-5o

60700 Undergraduate Project (Scientific Practice)
6cp
This subject is designed to enhance development of students’ ability to undertake a professionally-based scientific project. This subject can only be undertaken following prior negotiation on the part of the student with a full-time member of academic staff regarding supervision. Students contribute, in collaboration with their academic and, where relevant, industry supervisor, to the formulation of the project, including planning the work within an appropriate time scale. Students are responsible for appropriate analysis and critical evaluation of the data or information obtained and presentation of their findings in a formal written report.

Students should approach potential supervisors in the first instance. Before enrolment can be approved, the student and supervisor must provide the head of department with a short written project proposal, including assessment criteria and, where the project involves laboratory or field work, a completed risk assessment form.

In addition, approval by the subject coordinator is required.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus

60701 Undergraduate Project (Research Internship)
6cp
This subject is recommended for students wishing to undertake a career in research. It offers the opportunity to complete a short supervised research project either in a research laboratory at the University or with an industry partner.

This subject can only be undertaken following prior negotiation on the part of the student with a full-time member of academic staff regarding supervision, and, where relevant, with an industry co-supervisor. Students should approach potential supervisors about project availability in the first instance. Before enrolment can be approved, the student and supervisor must provide the head of department with a short written project proposal, including assessment criteria and, where the project involves laboratory or field work, a completed risk assessment form.

In addition, approval by the subject coordinator is required.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Summer session, City campus
progresses: there were some blind alleys that dominated thinking for some time and may have delayed progress but flexible minds were able to work around the roadblocks. Overall the ‘DNA story’ is an excellent example of a major scientific breakthrough that had far-reaching consequences and came about because of a concerted campaign by many researchers working in a spirit of competition and friendly rivalry.

60907 Managing Science-based Enterprises

3cp
Cross-cultural management, career management of staff, management of research and development programs and projects, intellectual property management, management of creativity, and risk management are critical competencies of managers in science-based enterprises. This subject provides the essential knowledge and concepts to facilitate skill development that is appropriate for managers in science-based enterprises. Case studies of different organisational structures and cultures is discussed.

60908 Science and Industrialisation

3cp
The impact of science on economic growth and society is the major focus of this subject. Science has been intimately involved in the development and implementation of new technologies that have transformed the economics and lifestyles of citizens. The early adoption of new technology has often had a major impact on national and global economies. In this subject, there is an examination of several case studies that estimate the cost of a new development in terms of the background science that has been funded in order to establish a new product or process. The importance of mergers and acquisitions in certain industries, e.g., pharmaceuticals, are shown to be necessary to ensure a sufficient capital base for the huge investment in bringing new product to market. There are also case studies that show that development of new processes gave nations a considerable economic advantage for a time. A further issue is the legacy of old large-scale manufacturing processes that were environmentally damaging and the continuing impact that has on society.

60909 Professional Science Project

12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval.

60909A Directed Study A

3cp
For subject description, contact UTS: Science.

60911 Directed Study B

3cp
For subject description, contact UTS: Science.

60986 PhD Thesis: Science

0cp
Information on this subject is available from UTS: Science.

60992 Managing Science and Scientists

12cp; block; availability: postgraduate students only
This subject provides the essential knowledge and concepts to facilitate skills development in the management of science-based activities in industry and research laboratories. There is a particular focus on the development of teamwork and leadership skills. There is also an opportunity to customise learning to take account of each student’s current or proposed workplace environment. Students who have successfully completed the subject have the capability to develop their management skills to an advanced state. The subject covers areas such as motivation, project management, organisational behaviour, teamwork, leadership, career management and the management of risk.

Typical availability
Autumn semester, City campus
Spring semester, City campus

65032 Forensic Science Research Project A

12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval.

Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

65033 Forensic Science Research Project

24cp
In this subject students undertake a semester-long research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. This project is equivalent in level to those undertaken by honours and research master’s students. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (10,000–20,000 words approx.) which includes an introduction, which sets the project in the context of the literature, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval.

Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

65034 Introduction to Forensic Science

6cp; 4hpw
This subject is designed to introduce forensic science as a coherent discipline to students with pre-existing scientific backgrounds. Crucial forensic science concepts, philosophies and principles are presented in their historic context, and their impact on modern forensic science.
is emphasised. The various forensic science sub-disciplines are presented in a descriptive and logical manner. The subject intends to familiarise students with forensic science, and also enhance the learning experience of other specialised forensic science subjects.

The subject covers, in the forensic context, the following areas: history, general definitions and concepts, sub-disciplines, methodology and methods, introduction to interpretation and Bayesian statistics, crime scene, trace typology, function of the expert, legal system, judicial admissibility and ethical considerations. Lectures are complemented by tutorials/workshops involving guest speakers.

65072 Forensic Science Research Project B
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.), which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request.

Ethics approval is required for certain projects.

65111 Chemistry 1
6cp; 6hpw
The study of chemistry is central to an understanding of the world around us and is relevant to all other science areas, such as physics, biology, geology and the environment at the fundamental level. This subject is designed to develop a student’s understanding of the basic principles of chemistry. Topics covered are an introduction to matter, chemical reactions, atomic structure, stoichiometry, the periodic table, chemical kinetics, which can then be applied to other subjects within the course. Students are introduced to fundamental concepts in these areas and learn how to apply their principles in problem-solving situations.

The subject provides the requisite knowledge and skills for 65212 Chemistry 2.

Typical availability
Autumn semester, City campus
Spring semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
• Student video: www.youtube.com/watch?v=mdqVYSrZYQ
• Academic video: www.youtube.com/watch?v=HrPbkVR3Yk

65202 Organic Chemistry 1
6cp; 6hpw
Requisites: 65201 Chemistry 2C OR 65202 Chemistry 2A OR 65212 Chemistry 2

This subject introduces students to the reactions characteristic of the common families of carbon compounds, and explores the details and implications of the reaction mechanisms involved. A primary objective is for students to gain an appreciation of the relationship of molecular structure to reactivity across a wide range of functional groups.

Students have the opportunity to perform many of these reactions in the laboratory, and to evaluate critically the success of their experiments by analysis of their reaction products using gas chromatography and infra-red spectroscopy as well as mp, bp and refractive index measurements.

Typical availability
Autumn semester, City campus

65212 Chemistry 2
6cp, 6hpw
Requisites: 65111 Chemistry 1 OR 65101 Chemistry 1C OR 65012 Chemistry 1A

This subject builds on and develops further the material introduced in 65111 Chemistry 1. Physical chemistry topics include acidic and basic salts, acid-base titrations, buffers, solubility equilibria, complex ion equilibria; introduction to chemical thermodynamics, enthalpy of reactions, Hess’s Law, entropy and Gibbs free energy; chemical kinetics; coordination chemistry; redox chemistry, electrode potentials, electrolysis, corrosion, Galvanic cells. Carbon chemistry topics include: structures and reactions of the common families of carbon compounds, alkanes, alkenes, alkynes, arenes, halogen compounds, alcohols, ethers, alkanals, alkanones, carboxylic acids, amines, amides, esters; stereochemistry, chirality and optical isomerism; biological molecules and biopolymers, amino acids, peptides, proteins, carbohydrates, nucleic acids.

Typical availability
Spring semester, City campus
Summer session, City campus

65242 Principles of Forensic Science
6cp, 6hpw

This subject is designed to introduce the different disciplines, principles and concepts peculiar to forensic science. It covers, in the forensic context, the following areas: history, general definitions and concepts, sub-disciplines, methodology and methods, introduction to crime scene, trace typology, function of the expert, legal system, judicial admissibility and ethical considerations, and interpretation of forensic evidence. Lectures are complemented by tutorials/workshops involving guest speakers. This is a core subject for the forensic science courses and an elective for students in other related courses.

Typical availability
Spring semester, City campus

65306 Analytical Chemistry 1
6cp, 6hpw
Requisites: 65202 Organic Chemistry 1

Lecture, laboratory and tutorial components of this subject cover spectroscopic methods of analysis including mass spectrometry (MS) and infra-red (IR), ultraviolet-visible (UV-Vis) and nuclear magnetic resonance (NMR) spectroscopy; general chromatographic methods for separation; volumetric techniques including acid-base and complexometric titrations; and errors, calibration and statistical interpretation of analytical data.

Typical availability
Spring semester, City campus

65307 Physical Chemistry 1
6cp, 4.5hpw
Requisites: [(65222 Chemistry 2A OR 65201 Chemistry 2C OR 65212 Chemistry 2) AND 33190 Mathematical Modelling for Science]

This subject is designed to provide students with a working knowledge of chemical thermodynamics, optical spectroscopy, and chemical kinetics, which can then be applied to other subjects within the course. Students are introduced to fundamental concepts in these areas and learn how to apply their principles in problem-solving situations.

Typical availability
Spring semester, City campus

65341 Forensic Imaging
6cp, 5hpw
Requisites: 65241 Principles of Forensic Science OR 65242 Principles of Forensic Science

This subject is specifically designed for forensic science students. It covers application of light theory in forensic science (absorption/reflection, UV, IR, diffusion, episcopic coaxial illumination, polarised light, photoluminescence, etc.), technical and forensic photography (use of large and medium format and single lens reflex cameras), image treatment, optical and electron microscopy, and comparison microscopy. Lectures are complemented by an extensive practical program given in the form of workshops.
**Typical availability**
Autumn semester, City campus (last offering in 2008)

**65342 Crime Scene Investigation**
6cp; 6hpw  
Requisite(s): 65242 Principles of Forensic Science OR 65241 Principles of Forensic Science AND 65212 Chemistry 2 OR 65201 Chemistry 2C OR 65022 Chemistry 2A  
These requisites may not apply to students in certain courses. See access conditions.

This subject provides a sound teaching in crime scene investigation. It is designed to introduce the different principles and concepts peculiar to a crime scene. It covers the following areas: aims of the crime and related investigations; preservation, recording and processing of a crime scene; preservation, search and collection of evidence; on-site screening tests; scene reconstruction; examples of scenes (break-entry, homicide, sexual assault, traffic and other accidents, fire, explosion, disaster); common types of evidence; ad-hoc forms and software assisting crime scene investigation. Lectures are complemented by tutorials/workshops involving guest speakers.

**Typical availability**
Autumn semester, City campus

**65409 Analytical Chemistry 2**
6cp; 6hpw  
Requisite(s): 65306 Analytical Chemistry 1  
This subject includes topics such as separation techniques, gas chromatography and instrumentation. The subject also covers sample preparation and derivatisation, columns-packed and bonded phase, GC detectors and their application, HPLC: basic theory and instrumentation, normal and reversed phase columns, ion-pair chromatography and gel permeation chromatography, ion exchange resins and chromatography; method validation and quality assurance, electrophoresis: plate and capillary, laboratory automation: robotic techniques, auto samplers and post-column derivatisation methods.

**Typical availability**
Autumn semester, City campus

**65410 Chemical Safety and Legislation**
6cp; 3hpw  
Requisite(s): 65201 Chemistry 2C OR 65022 Chemistry 2A OR 65212 Chemistry 2  
This subject covers identification of laboratory hazards and prevention; roles of government organisations (Safe Work Australia, WorkCover, DECCW, NICNAS, and APVMA); toxic effects of chemicals (carcinogens, mutagens and teratogens, sensitisers); exposure to chemicals, local and systemic reactions, acute and chronic toxicity; classification of dangerous goods (ADG class code and class labels); flammability limits (flammable liquids and solids); fire safety and fire prevention; precautionary labels and material safety data sheets; conducting risk assessments; NSW Occupational Health and Safety Act and the Regulations; safe storage of chemicals; safe handling of corrosives, oxidisers and explosives; class 6 poisons (scheduling, NSW Poisons and Therapeutic Goods Act); compressed gases (classification, hazards, storage and safe handling); cryogens and safe handling; personal protective equipment (respiratory, eye, head and face, and hand protection); workplace atmospheric monitoring; waste (safe handling of chemical, biological, and microbiological waste).

**Typical availability**
Autumn semester, City campus

**65411 Inorganic Chemistry 1**
6cp; 4.5hpw  
Requisite(s): 65201 Chemistry 2C OR 65022 Chemistry 2A OR 65212 Chemistry 2  
This subject covers the following topics: transition metals - electron configurations and oxidation states; fundamentals of coordination chemistry; crystal field theory; spectral and magnetic properties of metal complexes; chelating agents and applications in analytical chemistry, industrial processes and medicine.

**Typical availability**
Spring semester, City campus

**65412 Physical Evidence**
6cp; 6hpw  
Requisite(s): 65242 Principles of Forensic Science AND 65307 Physical Chemistry 1 AND 65306c Analytical Chemistry 1 AND 65342 Crime Scene Investigation  
These requisites may not apply to students in certain courses. See access conditions.

This subject covers the nature, value and relevance of several types of physical evidence. It follows on from the prerequisite subject and covers the following topics: fingerprint detection and identification; miscellaneous individual traces, tooth marks, lip prints, nail marks, etc.; path marks, footwear impression, tyre impression, etc.; weapons including firearms, bullet/cartridge identification, gunshot residues, firing distance; motor vehicle globes and other light; and miscellaneous trace evidence; matches, cigarettes/tobacco, building and safe insulation materials cordage, buttons, wood, and other types of physical evidence. Lectures are complemented by a practical program involving mock cases.

**Typical availability**
Spring semester, City campus

**65508 Organic Chemistry 2**
6cp; 6hpw  
Requisite(s): 65202 Organic Chemistry 1  
The subject builds on previous studies of functional group reactions and spectroscopic techniques and illustrates applications of these concepts for organic synthesis. Topics covered include aromaticity and chemistry of benzene and heterocyclic compounds; carbanion chemistry and multi-step synthesis of new aromatic compounds; chemistry of phenols and aryl halides; palladium-catalysed coupling reactions and modern synthetic methods used in academia and industry; molecular orbital theory, pericyclic reactions and 1,3-dipolar [2+3] cycloadditions. The subject also emphasises the practical applications of organic chemistry in the synthesis of many important compounds.

In the laboratory, students have the opportunity to perform multi-step reactions to synthesise bioactive molecule and natural products as well as carrying out other useful synthetic transformations.

**Typical availability**
Spring semester, City campus

**65509 Inorganic Chemistry 2**
6cp; 4.5hpw  
Requisite(s): 65411 Inorganic Chemistry 1  

**Typical availability**
Autumn semester, City campus

**65544 Chemical Criminalistics**
6cp; 6hpw  
Requisite(s): 65412 Physical Evidence AND 65409c Analytical Chemistry 2  
These requisites may not apply to students in certain courses. See access conditions.

This subject complements the material covered in 65412 Physical Evidence by presenting evidence types that require a high level of analytical skills. It covers forensic analysis of glass, soil, paint, fibres, hairs and documents. Lectures are complemented by an extensive practical program involving mock cases. At the end of this subject, students should be able to select appropriate analytical procedures, analyse, interpret and write an expert witness report describing the forensic analysis of the material covered in this subject and its prerequisite subjects.

**Typical availability**
Autumn semester, City campus
65545 Forensic Toxicology
6cp; 6hpw
Requisite(s): 65080 Organic Chemistry 2 AND 65409c Analytical Chemistry 2
These requisites may not apply to students in certain courses. See access conditions.
This subject examines the underpinning science of drugs and poisons relevant to matters that arise in judicial proceedings – that is forensic toxicology. The lecture component covers general pharmacology and toxicology. Topics covered include mechanisms of action, the absorption, distribution metabolism and elimination of drugs and poisons from the body as well as the signs and symptoms associated with the use of common drugs and poisons. The subject also provides an overview of state and federal laws relevant to licit and illicit drugs and poisons. The practical component is designed to reinforce topics covered in lectures and seeks to give student experience in solving problems associated with the analysis of a wide range of materials including human tissues and various biological fluids. The subject also includes workshops and tutorials on the interpretation of the meaning of analytical results.

Typical availability
Autumn semester, City campus

65606 Analytical Chemistry 3
6cp; 6hpw
Requisite(s): 65409 Analytical Chemistry 2
This subject covers lecture topics such as: method validation, chemometrics (including principal component analysis and artificial neural networks), experimental design; advanced analytical techniques including Raman spectroscopy, X-ray diffraction, X-ray fluorescence and microfluidics; and guest lectures from industry including Agilent Technologies, Waters Chromatography, National Association of Testing Authorities (NATA) and the Royal Australian Chemical Institute (RACI).

The practical component requires students to develop, validate and apply an analytical method to a given sample using a variety of techniques including High Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Capillary Electrophoresis (CE), Nuclear Resonance Spectroscopy (NMR) and Inductively Coupled Plasma-Mass Spectrometry (ICP-MS).

Typical availability
Spring semester, City campus

65607 Physical Chemistry 2
6cp; 4.5hpw
Requisite(s): 65307 Physical Chemistry 1
The subject builds on 65307 Physical Chemistry 1, exploring more advanced topics in chemical kinetics, electrochemistry, and spectroscopy. The principles of infrared and Raman spectroscopic instrumentation are included, along with the application of these techniques to chemical imaging.

Typical availability
Spring semester, City campus

65621 Environmental Chemistry
6cp; 6hpw
Requisite(s): 65201 Chemistry 2C OR 65022 Chemistry 2A OR 65212 Chemistry 2
This subject focuses on the importance of chemical changes in the natural environment, and those resulting from human activity. Chemical changes are examined for both inorganic matter (soil clays) and organic matter (plant materials), having as their end products humic substances, petroleum, and coal. Particular emphasis is placed on changes in organic molecular structure. Important pollutants including halogenated hydrocarbons, and the oxides of nitrogen, sulphur and carbon are discussed, in the contexts of their origins and their effects on the geosphere, hydrosphere and biosphere.

Typical availability
Spring semester, City campus

65643 Chemistry and Pharmacology of Recreational Drugs
6cp; 6hpw
Requisite(s): 65545 Forensic Toxicology
These requisites may not apply to students in certain courses. See access conditions.
This subject provides greater detail on the chemistry, pharmacology and societal context of a number of substances covered in 65545 Forensic Toxicology. The focus of the subject is those substances used for recreational purposes, that is stimulants, depressants, hallucinogens and mixed effect drugs (e.g. opiates, solvents, amphetamines, alcohol and nicotine). Other topics covered include routes of synthesis, profiling of drugs to determine the method of manufacture and / or geographical origin; construction and operation of clandestine laboratories; sampling and analysis protocols; examination of relevant state and federal legislation regarding the possession, supply, manufacture and importation of certain drugs; the use of drugs in sport; the ‘war on drugs’; case studies and social issues relating to the recreational use of drugs. The laboratory component includes experiments in natural product chemistry and two cognate syntheses based on procedures carried out in clandestine laboratories, as well as workshops and tutorials on the elucidation of the structure and purity of an unknown substance and those synthesised during practical sessions.

Typical availability
Spring semester, City campus

65644 Fire and Explosion Investigation
6cp
Requisite(s): 6544 Chemical Criminalistics AND 6560c Analytical Chemistry 3
These requisites may not apply to students in certain courses. See access conditions.
This subject seeks to show how a systematic scientific examination of a fire or explosion scene can lead to the establishment of its origin and cause. It covers the following topics: general definitions; fire insurance and crime statistics; combustion process, external and internal scene examination, fire origin and cause determination; physical properties of materials, gases, aerosols; spontaneous combustion; kitchen fires, cigarettes, heaters, motor vehicle fires, electric appliances, analysis of accelerants and explosives; and sniffers and canines.

Typical availability
Spring semester, City campus

65743 Complex Forensic Cases (Chemistry)
6cp; 6hpw
Requisite(s): ([65412 Physical Evidence AND 65544 Chemical Criminalistics] OR 6584c Honours (Forensic Science)) 1
These requisites may not apply to students in certain courses. See access conditions.
This subject is designed as an advanced practical course where the students apply techniques and principles gained in previous forensic subjects to the analysis of more complex cases. It aims to familiarise students with the management of a complex forensic case involving more than one type of evidence. It involves forensic analysis of material previously studied, preparation of expert witness reports and preparation for presenting evidence in a court environment.

Typical availability
Autumn semester, City campus

65861 Honours (Chemistry) 1
24cp
Study in this subject is designed to enhance the skills and knowledge necessary for research in chemistry. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of interest. The data collected is then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop coherent arguments in detail. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

Typical availability
Autumn semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
65862 Honours (Chemistry) 2
24cp
Requisite(s): 65861 Honours (Chemistry) 1
For subject description, refer to 65861 Honours (Chemistry) 1.

Typical availability
Spring semester, City campus

65863 Expert Evidence Presentation
6cp; 6hpw
Requisite(s): 65865c Honours (Forensic Science) 2
These requisites may not apply to students in certain courses. See access conditions.

This subject deals with the legal issues involving forensic science in the field and the impact of scientific evidence on the legal system. Students receive some training in the preparation of reports and in the presentation of evidence in court and participate in a mock trial at the end of the subject in order to consolidate these skills (the mock trial is not assessable). This subject is studied under the following broad topic areas: introduction to the Australian legal system, criminal law, tort law, Crimes (Forensic Procedures) Act 2000 (NSW), evidence, Uniform Civil Procedure Rules 2005 (NSW), the role of the expert, advocacy and coronial law. This subject aims to provide an understanding of:

- the legal and practical issues of forensic science
- the impact of forensic science on the legal system, and
- the traditional and emerging admissibility standards involving forensic science evidence.

In addition, the subject consolidates crucial communication skills.

Typical availability
Spring semester, City campus

65864 Honours (Forensic Science) 1
18cp
A research project on specific aspects of forensic science is conducted under the supervision of a member of the academic staff of the University. Some projects are conducted externally in conjunction with an external co-supervisor. This subject is designed to enhance the skills and knowledge necessary for research in forensic science. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of interest. The data collected is then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The findings of the research project are presented in a structured and integrated thesis which comprises the main assessment component.

Typical availability
Autumn semester, City campus

65865 Honours (Forensic Science) 2
18cp
This subject is the second component of a program designed to enhance the skills and knowledge necessary for research in forensic science. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of interest. The data collected is then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The findings of the research project are presented in a structured and integrated thesis which comprises the main assessment component.

Typical availability
Spring semester, City campus

66036 Identifying Groundwater Dependent Ecosystems
6cp; distance
Requisite(s): 91154 Ecology AND 91270 Plant Physiology and Ecophysiology
These requisites may not apply to students in certain courses. See access conditions.

This subject is designed to provide students with the knowledge required to identify groundwater dependent ecosystems in situ. A brief overview of the various major ecosystems in Australia is given, including their defining features (structure, composition and climate envelope). Sources of water (rainwater, soil water, groundwater, fog, riparian water), patterns of water use (daily and seasonal), and the various methodologies available to measure ecosystem water use and the source(s) of water used by ecosystems are discussed. Factors that influence ecosystem water use (including climate, vegetation cover and water availability), are reviewed, as are definitions of ecosystem dependency on groundwater. While emphasis is given to terrestrial systems, some discussion of aquatic and cave ecosystems is made, where appropriate. Students must attend a three-day field-based workshop or show equivalent knowledge or skills.

Typical availability
Autumn semester, City campus

66513 Marine Geosciences
6cp
Requisite(s): 91107 The Biosphere
These requisites may not apply to students in certain courses. See access conditions.

This elective subject is suitable for any student undertaking study in the environmental sciences. It deals with the structure and morphology of ocean basins and their margins, including their origin and evolutionary history. Physical and chemical processes operating in the oceans and their interaction with the atmosphere and climate systems are examined. The nature and origin of seafloor sediments and the history of ocean and climate change are covered in detail, including the relationships between continental drift, ocean currents and climate variation. In particular the role of tertiary and quaternary ocean sediments in an understanding of climate and environmental change are assessed as part of an overall examination of the evidence for climate and climate change throughout geological history. The subject then examines in more detail quaternary allogenic factors that influence earth systems and their consequences. The subject covers milankovitch cycles, ice ages, eustatic fluctuations and climate change: recordings of these in earth systems, and the consequences of these and other major influences on the geosphere-biosphere; and greenhouse concepts and their relationship and responses to natural and anthropogenic input. As part of the subject, an examination of relevant methods of determining age, collecting and analysing field data and the application of modelling techniques are dealt with.

Typical availability
Autumn semester, City campus

67305 Polymer Science
6cp; 6hpw
Requisite(s): 65212 Chemistry 2 OR 65201 Chemistry 2C OR 67101 Introduction to Materials OR 60101 Chemistry and Materials Science OR 65022 Chemistry 2A OR 68070 Introduction to Materials
This subject provides an introduction to the chemistry and physics of polymers and includes comprehensive coverage of the structures, polymerisation mechanisms and characterisation techniques of polymers. Practical classes provide experience with relevant techniques and complement the theory presented in lectures. The applications of polymers are also addressed. This subject gives students a solid grounding in the field of polymers and the practical foundation for work in the polymer industry.

Typical availability
Autumn semester, City campus
**67509 Molecular Nanotechnology**  
6cp; 6hpw  
**Requisites:** 65212 Chemistry 2 OR 65201 Chemistry 2C OR 65022 Chemistry 2A  
These requisites may not apply to students in certain courses. See access conditions.  
The subject focuses on the chemical basis of nanotechnology and the atomic and molecular interaction of small and large molecules, and how these forces can be used to assemble molecular devices. The preparation, characterisation and uses of molecular devices are discussed. Existing molecular devices, such as liquid crystals and biological and synthetic ion-channels are also discussed.  
**Typical availability**  
Autumn semester, City campus

**67510 Surface Processes**  
6cp; 6hpw  
**Requisites:** 6507 Nanotechnology Chemistry 1  
This subject is based on the chemistry of surfaces and interfaces and covers such topics as surface thermodynamics yielding concepts of surface energy and tension, adsorption isotherms, surfactants and micelles, wetting spreading and surface energy of solids and liquids and colloidal (or nanoparticulate) systems. The subject uses concepts introduced in 6512 Chemistry 2 and 6507 Physical Chemistry 1 to aid the development of models for the understanding of the observed properties of interfaces. The emphasis on the chemistry of interfaces is important in providing an underpinning of the development of nanoscale systems.  
**Typical availability**  
Spring semester, City campus

**68001 Advanced Physics**  
6cp; 3-4hpw  
The aim of this coursework subject is to enhance students’ understandings of physical principles and build the capacity to engage at an advanced level in several areas of contemporary significance in physics. The subject develops the theoretical background for experimental techniques such as x-ray and neutron diffraction and advanced electron microscopy and develops student skills in computational science applied to physical systems.  
**Typical availability**  
Autumn semester, City campus

**68002 Advanced Nanomaterials**  
6cp; 3-4hpw  
The aim of this coursework subject is to develop students’ awareness and competency in the specific components of nanoscience and nanotechnology relevant to material-related research. It combines topics in nanostructures and nanomaterials with the necessary foundations that underlie the nanoscience and technology of materials. The subject covers topics selected from: nanomaterials synthesis and characterisation, advanced spectroscopic techniques, surface science, optical characterisation and modelling techniques, technology transfer from the laboratory to the industrial world.  
**Typical availability**  
Spring semester, City campus

**68003 Nanotechnology Honours Research 1**  
18cp  
Study in this subject is designed to enhance the skills and knowledge necessary for research in nanoscience and nanotechnology. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of nanotechnology or nanoscience of interest. Typically, the data collected are then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The two Nanotechnology Honours Research subjects, one taken in each semester, combine to form a single, continuous research project. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

**Typical availability**  
Autumn semester, City campus

**68004 Nanotechnology Honours Research 2**  
18cp  
Study in this subject is designed to enhance the skills and knowledge necessary for research in nanoscience and nanotechnology. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of nanotechnology or nanoscience of interest. Typically, the data collected are then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The two Nanotechnology Honours Research subjects, one taken in each semester, combine to form a single, continuous research project. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

**Typical availability**  
Spring semester, City campus

**68005 Physics Honours Research 1**  
18cp  
Study in this subject is designed to enhance the skills and knowledge necessary for research in applied physics. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of applied physics of interest. Typically, the data collected are then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The two Physics Honours Research subjects, one taken in each semester, combine to form a single, continuous research project. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

**Typical availability**  
Autumn semester, City campus

**68006 Physics Honours Research 2**  
18cp  
Study in this subject is designed to enhance the skills and knowledge necessary for research in applied physics. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigations in an area of applied physics of interest. Typically, the data collected are then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The two Physics Honours Research subjects, one taken in each semester, combine to form a single, continuous research project. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

**Typical availability**  
Spring semester, City campus

**68037 Physical Modelling**  
6cp; 6hpw  
This is a foundation physics subject. It covers the fundamentals of mechanics, thermal physics, electricity, fluids, waves and optics. Students are introduced to the basic techniques of measurement and technical communication.  
This subject aims to develop an appreciation of the physical principles governing natural processes is an essential foundation experience for all engineers. Through this subject, students appreciate that physics is not just a body of knowledge to be learned and understood. Together with mathematics, it provides a framework for understanding and modelling natural phenomena that is carried over into design and analysis in engineering.  
Students see that physics both enables and restrains engineering. Designs that are inconsistent with the laws of physics cannot be realised while much engineering innovation demands physical insight or innovative uses of existing physical and mathematical models.
The subject also seeks to give students insights into the processes and pleasures of physics itself as a professional discipline. This includes basic experiences with the analytical, problem-solving, observational and technical as well as measurement skills needed to model natural processes. The strong link to mathematics is integral to this aspect of the subject, as is the laboratory program which also links to mathematical modelling. The technical communication and other generic skills developed in this subject are further developed in later subjects. Graduates and later stage students, whether using physics themselves, working with physicists in a research or design team, or using new products based on advanced physics concepts, need to function in a world of innovation in which physical understanding and new physics plays a key role. This subject initiates the insights and attitudes relevant to this goal.

Typical availability
Autumn semester, City campus
Spring semester, City campus

68038 Advanced Mathematics and Physics
6cp; 5hpw
Requisites: 68037 Physical Modelling AND 33230 Mathematical Modelling 2 AND 48520 Electronics and Circuits
Advanced Mathematics and Physics represents a partnership between the Electrical Engineering Group in the Faculty of Engineering, the Department of Mathematical Sciences and the Department of Physics and Advanced Materials in the Faculty of Science. This subject provides knowledge of mathematical methods needed for analysis of electric and magnetic fields and for circuit analysis and signal processing. It also provides an introduction to quantum physics and its application to semiconductor electronic and opto-electronic devices. The mathematics and physics components complement each other so that students develop both their theoretical and experimental skills. Topics covered are: vector calculus; functions of a complex variable; partial differential equations and boundary value problems; the concepts of quantum mechanics and Schrödinger’s equation; and applications of quantum mechanics to semiconductors and electronic devices.

Typical availability
Spring semester, City campus

68041 Physical Aspects of Nature
6cp; 6hpw
This subject provides a general introduction to movement, wave motion, optics, thermal effects, properties of solid and fluid matter, electrical and atomic concepts, with a view to developing an appreciation and understanding of how to model physical aspects of nature. The material is presented with a focus on application to all areas of science and life science and integrates as a key component hands-on laboratory work and analysis of experimental data.

Typical availability
Autumn semester, City campus
Spring semester, City campus

68044 Characterisation of Energy Efficient Materials
6cp
The concept of energy efficient materials is introduced to define the range and application of materials to be studied in this subject. This includes semiconductor materials used in light emitting diodes and photovoltaic applications, and thin film materials relevant to window coatings. Techniques for characterising these materials are then discussed in detail with demonstration of the practical application of these techniques. These include techniques such as x-ray diffraction for structure characterisation, optical characterisation using spectroscopy and ellipsometry, and measurement of electrical resistivity.

This subject contains a mix of coursework, experimental exercises and projects.

The aim of the subject is to provide a thorough grounding in the physical basis and practical application of these techniques in the context of energy efficient materials at a level appropriate to conducting research in this field.

68045 Computation Techniques in the Materials Sciences
6cp
Computational techniques are gaining increasing importance in materials science. They allow materials properties to be simulated at a level that is often difficult to access experimentally and play a vital role in the identification of new materials and in the interpretation of experimental data.

This subject contains a mix of coursework, practical exercises and projects.

The subject builds on work undertaken in 68416 Computational Physics to provide a thorough grounding in the physical basis of computational techniques used widely in materials science. Students gain experience working at a range of size scales, from quantum mechanical simulations at the atomistic level to classical electrodynamics applied to continuous media. The subject also provides an overview of the current status of computational techniques and facilities available for undertaking materials simulations.

68046 Physics Research Project A
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

68047 Physics Research Project B
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

68048 Physics Research Project
24cp
In this subject students undertake a semester-long research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the
research work. This project is equivalent in level to those undertaken by honours and research master's students. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (10,000–20,000 words approx.) which includes an introduction, which sets the project in the context of the literature, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

68070 Introduction to Materials
6cp; 6hpw

This subject develops a solid science foundation for further materials and engineering-related studies and facilitates the working relationship between engineers, materials scientists and other scientists; an ability to identify and solve materials problems; and an ability to relate properties of engineering materials to technical applications. Topics covered in this subject are: chemical bonding of materials, classification of materials, structure-property relationships, mechanical properties, heat treatment and strengthening mechanisms, ferrous and non-ferrous alloys, ceramics, polymers and composites, materials degradation, materials recycling and materials selection.

Numerous applied examples are discussed. Laboratory work imparts practical skills and reinforces the underlying theories. This is an integral part of the subject along with tutorial workshops.

Typical availability
Spring semester, City campus

68075 Nanomaterials
6cp; 5hpw

Requisites: 68070 Introduction to Materials OR 60101 Chemistry and Materials Science OR 60103 Nanosciences 1

This subject contains two complementary strands. The first deals with methods for producing nanostructures, nanostructured materials and nanoscale devices, using deposition, growth and self-assembling processes. The second uses real-world examples to demonstrate how the unique properties of these materials can be tailored for a wide range of applications from novel building materials and medical prosthetics to the next generation of electronic devices.

Typical availability
Autumn semester, City campus

68101 Foundations of Physics
6cp; 6hpw

This is a foundation physics subject primarily for students in the physical sciences. It covers the fundamentals of dynamics and statics, fluid mechanics, thermal physics, waves and electricity. A strong emphasis is placed on the investigative nature of physics research with an integrated laboratory program developing further the problem-solving skills of the lecture and tutorial material to an appreciation of good experimental design and significance in information obtained under real-life modelling situations.

Typical availability
Autumn semester, City campus

68201 Physics in Action
6cp; 6hpw

Requisites: 68101 Foundations of Physics OR 68041 Physical Aspects of Nature OR 68037 Physical Modelling

This subject extends the material studied in 68101 Foundations in Physics, with statics and dynamics extended to a study of rotation, thermal physics extended to the first two laws of the thermodynamics, and waves extended to a study of geometrical optics and optical devices. Students also explore new subject areas through a study of DC and AC circuits, electromagnetism, and atomic physics including introductory quantum physics.

Typical availability
Spring semester, City campus

68315 Imaging Science
6cp; 5hpw

Requisites: [68201 Physics in Action OR 68037 Physical Modelling] AND [33290; Statistics and Mathematics for Science OR 33230 Mathematical Modelling 2]

These requisites may not apply to students in certain courses. See access conditions.

Recommended studies: knowledge of calculus and of complex numbers

This subject builds upon the study of waves, optics and electromagnetics undertaken in an introductory physics subject. It assumes knowledge of calculus and of complex numbers. The subject considers how light is used to observe the world from the molecular scale upwards. It introduces the electromagnetic description of light as well as the description based on photons. Different sources and detectors are considered. The design of imaging systems and their resolution limits are analysed. The subject includes a significant experimental component, which emphasises the importance of careful analysis and clear presentation of observations.

Typical availability
Spring semester, City campus

68316 Applied Electronics and Interfacing
6cp; 5hpw

Requisites: 68201 Physics in Action OR 68037 Physical Modelling

These requisites may not apply to students in certain courses. See access conditions.

This subject builds upon the foundation studies of electricity undertaken in an introductory physics subject. It assumes knowledge of calculus and of complex numbers. The subject develops practical and theoretical skills in the application of electronic circuits in the laboratory with particular emphasis on the development of computer interfacing applications. Op-amps and digital circuit components are treated as building blocks to functional interfacing systems. The Labview environment is used to build skills in programming a computer interface.

Typical availability
Autumn semester, City campus

68320 Scanning Probe and Electron Microscopy
6cp; 6hpw

Requisites: [33190 Mathematical Modelling for Science AND (68201 Physics in Action OR 68037 Physical Modelling OR 65201 Ver 4 Chemistry 2CI)]

These requisites may not apply to students in certain courses. See access conditions.

Characterisation and production of materials, devices, biological systems with nanoscale features requires analysis and manipulation tools with extreme precision. This is a central issue in nanotechnology and many contemporary areas of materials science. The advent of techniques such as scanning tunnelling or atomic force microscopy allows us to view and manipulate objects at this level. Electron microscopy has a more established history, but in more recent times has turned out to be an invaluable tool to the nanotechnologist. This is a hands-on subject that introduces the concepts behind these techniques, their use and application in many areas of science and technology. Recent developments in the techniques are introduced, and students have the opportunity to gain hands-on experience using a variety of scanning probe and electron microscopes.

Typical availability
Spring semester, City campus
68412 Energy Science and Technology  
6cp; 4hpw  
Requisite(s): 68201 Physics in Action OR 68037 Physical Modelling AND (33290c Statistics and Mathematics for Science OR 33230 Mathematical Modelling 2)  
This subject explores the physics and thermodynamics of energy systems. It builds on the fluids and thermodynamics studied in introductory level subjects, and develops an understanding of the physics and thermodynamics underlying conventional and renewable energy systems. The subject builds problem-solving skills in practical applications of energy science. These systems and related issues are explored through lectures, tutorials and project-based work.  
**Typical availability**  
Autumn semester, City campus

68413 Quantum Physics  
6cp; 6hpw  
Requisite(s): 68201 Physics in Action OR 68037 Physical Modelling AND (33360c Mathematics for Physical Science OR 68038 Advanced Mathematics and Physics)  
These requisites may not apply to students in certain courses. See access conditions.  
Recommended studies: some knowledge of complex numbers, matrices and differential equations  
This subject builds on introductory material on waves and classical mechanics. The subject examines how the behaviour of our world at an atomic level differs from our everyday experience of the macroscopic world. It introduces concepts and quantum mechanical tools needed to describe the structure and interactions of atoms, molecules and solids. The unique properties of matter at this scale can be exploited in the creation of new materials and devices in nanotechnology. This subject explores emerging technologies such as quantum computing, scanning tunnelling microscopy, and spectroscopic tools used to characterise and investigate the atomic world. It provides material which is fundamental to understanding many areas of physics and chemistry together with contemporary applications which are relevant to nanotechnologists.  
**Typical availability**  
Spring semester, City campus

68414 Advanced Mechanics  
6cp; 4hpw  
Requisite(s): 68201 Physics in Action OR 68037 Physical Modelling AND (33360c Mathematics for Physical Science OR 68038 Advanced Mathematics and Physics)  
This subject builds upon the foundation studies of mechanics and fields undertaken in an introductory physics subject. It takes advantage of the methods of vector calculus and differential equations to analyse the motion of particles and bodies under influence of forces and fields. Topics include coupled oscillators, the Lagrangian description of particle motion, rotational body dynamics, central force dynamics, and relativity.  
**Typical availability**  
Spring semester, City campus

68415 Measurement and Analysis of Physical Processes  
6cp; 5hpw  
Requisite(s): 68201 Physics in Action OR 68037 Physical Modelling AND (33290c Statistics and Mathematics for Science OR 33230 Mathematical Modelling 2)  
These requisites may not apply to students in certain courses. See access conditions.  
This is predominantly an experimentally based subject. It builds upon the approach to experimentation introduced in the first year and provides a firm foundation for later experimental work. In particular, a focus is brought to methods of measurement and principles of data analysis of relevance to laboratory-based experimentation. The subject reinforces basic principles with practical applications drawn from various areas of applied physics. An experimentally based project is a major feature of this subject, where experimental design, data analysis and faithful and accurate reporting are emphasised.  
**Typical availability**  
Spring semester, City campus

68416 Computational Physics  
6cp; 4hpw  
Requisite(s): 33360 Mathematics for Physical Science OR 68038 Advanced Mathematics and Physics  
These requisites may not apply to students in certain courses. See access conditions.  
This subject introduces the key elements of computational physics such as methods for solving physical problems numerically and the use of computers for simulating the dynamics of large or complex systems. Numerical techniques including matrix manipulation, iterative optimisation and differential equation solvers. These are developed and applied to practical problems such as quantum mechanical simulations, statistical mechanics, electrodynamics and fields and molecular dynamics. Project work leads students to advanced simulation work including processing and visualisation of results.  
**Typical availability**  
Autumn semester, City campus

68513 Optics and Nanophotonics  
6cp; 4hpw  
Requisite(s): 68201 Physics in Action OR 68037 Physical Modelling AND (33360c Mathematics for Physical Science OR 68038 Advanced Mathematics and Physics)  
These requisites may not apply to students in certain courses. See access conditions.  
Recommended studies: 68315 Imaging Science; 68606 Solid-State Science and Nanodevices  
This subject builds upon the foundation studies of waves and optics undertaken in an introductory physics subjects. It takes advantage of the methods of vector calculus and differential equations to analyse how propagating fields interact with matter. The subject shows that field distributions at the nanoscale play an important role in many well-established and developing biological and chemical nanoscale analytic tools. Topics include: Maxwell's equations, interaction of electromagnetic waves and matter, diffraction and holographic gratings, near-field optics and bionanophotonics.  
**Typical availability**  
Spring semester, City campus

68606 Solid-state Science and Nanodevices  
6cp; 5hpw  
Requisite(s): 68413 Quantum Physics  
These requisites may not apply to students in certain courses. See access conditions.  
This subject provides an introduction to the quantum mechanics of electrons in solids and shows how the basic principles are used to guide the development of nanodevices which have technological applications. The subject has a substantial laboratory component which provides an opportunity to work with nanostructured materials.  
**Typical availability**  
Autumn semester, City campus

68723 Research Dissertation 1 (Science)  
24cp  
For subject description, contact UTS: Science.  

68724 Research Dissertation 2 (Science)  
24cp  
Requisite(s): 68723 Research Dissertation 1 [Science]  
There are also course requisites for this subject. See access conditions.  
For subject description, contact UTS: Science.  

69337 Special Reading Subject  
3cp  
This subject can only be undertaken following prior negotiation on the part of the student with a full-time member of academic staff regarding individual supervision. In addition, special permission of the Associate Dean (Teaching and Learning) is required.

Access conditions are available in the individual subject descriptions in the online handbook.
Typical availability
Spring semester, City campus
Autumn semester, City campus
Summer session, City campus

69500 Career Management for Scientists
6cp; 4hpw
The aim of this subject is to enable students to research and understand the requirements of employers of science graduates and to review and effectively promote both discipline specific skills and graduate attributes to employers in their fields of interest. It develops professional skills and behaviours sought by employers that enable graduates to transition effectively into science or other industries. It requires students to research relevant work opportunities in the local or global workplace, to analyse their capacities in relation to employer requirements in that field and review education and training needs for ongoing employment. It enables students to analyse and apply effective interpersonal skills in teamwork and develop confidence in their business communication and presentation skills. Students clarify career goals, identify relevant professional capacities and graduate attributes and learn to successfully articulate these capacities and experiences to employers. The subject also supports the development of a skills based e-portfolio for ongoing career management.

Typical availability
Spring semester, City campus

70110 Introduction to Law
6cp
Undergraduate
The subject is designed for non-lawyers and lawyers from legal traditions other than the common law tradition who need to acquire an understanding of the Australian legal system and fundamental principles within main areas of Australian law to assist them to undertake more specialised studies including those in a range of disciplines and fields other than law. It is designed to provide, in a module of nine out of a total of 12 topics, an introduction to the Australian legal system and an understanding of the western legal traditions and common law foundations for the legal system, followed by an introduction to principles of legal research and legal problem-solving, and to legal principles in the main areas of the law. This provides a foundation for students to undertake the research and learning in the last three topics of the subject which are specific to students’ courses. It is intended that these nine topics are offered as an adjunct to a number of courses both internal and external, and it is designed to give an overview of those areas required to underpin the more specific and in-depth course materials which are taught in the remaining three topics. By combining the teaching of an understanding of the Australian legal system and major legal concepts with teaching the skills of research and legal problem-solving, the first nine topics of the subject equip students to move effectively into the specialised learning required not only in the last three topics but in their other subjects and their future studies.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70115 Perspectives on Law
8cp
Undergraduate and Postgraduate
This subject aims to introduce students to the law and the Australian legal system through the lens of a variety of perspectives, including: ethical, philosophical, historical, indigenous, constitutional, international and cultural perspectives. In this way students not only develop an understanding of the fundamental concepts which underpin our legal system, as well as an appreciation of the interrelationships between its various institutions, but moreover acquire an insight into the workings of and tensions within our legal system and so be in a position to critically evaluate the strengths and weaknesses of the Australian legal system and the role of law in the Australian community. Students are given the opportunity to read and critically assess a range of materials from a variety of sources. Students are also introduced to a range of legal assessment skills relevant to their studies in law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70120 Legal Method and Research
6cp
Requisites(s): 70110 Introduction to Law AND 76006 Public International Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
The aim of this subject is to engage students with legal systems, legal reasoning, legal problem solving and legal research. Firstly, students are introduced to the Australian legal system, legal reasoning and the legal method skills of case analysis, statutory interpretation, legal problem solving and legal research. Legal method skills are fundamental to both the study and practice of law and students are able to develop these skills in a range of contexts. Students are also given opportunities to explore different approaches to legal reasoning and the contentious issue of judicial law-making.
Secondly, students are introduced to and develop a range of legal research skills. Students learn to distinguish between and locate primary and secondary sources of law using a number of library resources. Students also learn to develop research strategies and apply effective methodologies that suit the circumstances of the research tasks. Legal method and research are essential in the study of all subjects in the law program.

Typical availability
Autumn semester, City campus
Spring semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
• Student video: www.youtube.com/user/utschannel#p/u/6/x64AAXTduQ
• Academic video: www.youtube.com/user/utschannel#p/u/19/fsIp-QiLtVwU

70211 Contracts
8cp
Requisites(s): [70113 Legal Process and History AND 70105c Legal Research] OR [70203 Business Law and Ethics OR 70120c Legal Method and Research]
Undergraduate and Postgraduate
This subject deals with the legal principles related to binding promises, the issues arising out of their interpretation, performance, and termination. The topics covered include the formation of contracts (agreement, consideration, intention, writing, legality of subject, capacity, privity); content and construction; vitiating factors (mistake, misrepresentation, duress, undue influence, unconscionability); discharge by performance and non-performance of contractual obligations (breach and frustration); and contractual remedies.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70218 Criminal Law
8cp
Requisites(s): [70113c Legal Process and History AND 70105c Legal Research] OR [70115c Perspectives on Law AND 70120c Legal Method and Research]
Undergraduate and Postgraduate
This subject deals with the substantive criminal law, the doctrines and rules that define the conditions of criminal liability and some aspects of procedural criminal law. Australian common law doctrine and the Crimes Act 1900 (NSW) are considered.
Topics include: the nature of crime; the doctrines of mens rea and actus reus; burden of proof; strict liability; offences against the person; property offences; complicity and criminal defences.

Typical availability
Autumn semester, City campus
Spring semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/watch?v=NRQLy3LKeJs
- Academic video: www.youtube.com/watch?v=7HOYparM4Dw

70311 Torts
8cp
Requisite(s): 70113 Legal Process and History AND 70105c Legal Research OR 79203 Business Law and Ethics OR 70102c Legal Method and Research
Undergraduate and Postgraduate
This subject covers the functions and aims of the law of torts. The law of torts deals with claims for redress for civil wrongs. Students examine the nature of tortious liability in the light of a selection of specific torts, namely, trespass to the person, goods and land; detinue and conversion, the action on the case for wilful injuries; negligence; nuisance and statutory workers compensation and motor vehicle accident schemes. Negligence is the most significant tort and it is the primary focus of this subject. Students engage with and develop an understanding of the common law development of doctrine and rules through reading cases. In 2002 and 2003 there were significant legislative reforms to tort law and the impact of this legislation, in particular the Civil Liability Act 2002 (NSW), and its relationship to the common law is examined.

A law of torts subject is required for admission as a legal practitioner in all Australian jurisdictions. This subject is part of the core program for the Bachelor of Laws and provides students with foundational knowledge required for more advanced 'private law' subjects in the law degree. Subjects covering areas such as commercial law, and equity and corporate law also require a sound knowledge of tort law as a basis for the legal concepts learned in those subjects.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70317 Real Property
8cp
Requisite(s): [70211 Contracts AND 70311c Torts] OR 79203 Business Law and Ethics
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate and Postgraduate
This subject deals with the law relating to transactions and title in land. The topics covered in this subject include: registered and unregistered land titles; interest at law, and the rights of the beneficiary to that interest, continue to the body corporate and public policies.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70327 Commercial Law
8cp
Requisite(s): 70211 Contracts AND 70311c Torts
Undergraduate and Postgraduate
In this subject students develop an understanding of aspects of commercial transactions. They also examine the law relating to chattel leases, cheques, negotiable instruments, guarantees, sale of goods, product liability and the application of key provisions of the Australian Consumer Law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70417 Corporate Law
8cp
Requisite(s): 70317c Real Property AND 70517c Equity and Trusts
Undergraduate and Postgraduate
Corporations are an all-pervading presence in contemporary society. An understanding of corporate law is essential for students intending to enter a commercial legal practice or aspiring to a senior appointment within a company. Awareness of the different rights and responsibilities of corporate stakeholders, such as directors, employees, creditors and shareholders, is also important for any prospective lawyer, since so many legal issues involve one or more corporations as parties to the action or transaction.

This subject is an introduction to the field of corporate law and corporations, and their role in commerce and society. It looks at the nature and content of the Commonwealth and state constitutions and the role and methods of the High Court in interpreting the Constitution. The distribution of legislative power under the Constitution and the scope of particular grants of legislative power to the Commonwealth.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70517 Equity and Trusts
8cp
Requisite(s): 70317 Real Property
Undergraduate and Postgraduate
This subject covers two related fields of study.
In 'equity' students examine the doctrines and remedies which were originally developed in the Courts of Chancery in England prior to 1873 to ameliorate the harshness of the common law and which are still applied today to the largely same effect, with some modification from time to time. Equitable doctrines and remedies do not replace the common law but supplement it in significant ways by recognising and enforcing obligations which are not known to the common law and by granting remedies in respect of those obligations which are not available at common law. These doctrines and remedies are now administered in the same courts in which the common law is administered. Many areas of law are touched by equitable doctrines and remedies. In particular, the law of contract and property law are significantly affected by equity. Through the study of equity, students examine the range of discretionary remedies which are available for breach of particular obligations.

In 'trusts' students explore the concept of a trust which was developed in the Courts of Chancery, whereby an interest in property is legally owned by one party but held for the benefit of another person or purpose permitted by law. The obligations of the party owning the interest at law, and the rights of the beneficiary to that interest, continue to be recognised and enforced in equity. Trusts are now commonly used in both private arrangements and for commercial purposes, having particular consequences for taxation and insolvency. The relevant principles and modern applications of trusts are considered.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70616 Australian Constitutional Law
8cp
Requisite(s): [70105 Legal Research AND 70113 Legal Process and History] OR [70115 Perspectives on Law AND 70120 Legal Method and Research] AND 70211c Contracts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject aims to provide an understanding of:
- the philosophies and principles which shape Australian constitutional law
- the nature and content of the Commonwealth and state constitutions
- the role and methods of the High Court in interpreting the Constitution
- the distribution of legislative power under the Constitution
- the scope of particular grants of legislative power to the Commonwealth.

Access conditions are available in the individual subject descriptions in the online handbook.
• the role of international law, including treaties, in shaping Australian domestic law
• the relationship between the Commonwealth and the states under the Constitution
• the scope of the executive, parliamentary and judicial powers of the Commonwealth, the states and the territories
• the relationship between the three arms of government in Australia
• those rights and freedoms guaranteed by the Constitution, both express and implied, and
• the nature of ‘representative government’.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70617 Administrative Law
6cp
Requisite(s): 70616c Australian Constitutional Law
These requisites may not apply to students in certain courses. See access conditions. Undergraduate and Postgraduate

This subject deals with the control of government decisions. The primary focus is on the various mechanisms designed to achieve accountability on the part of officials who exercise broad discretionary powers, including decisions of the Governor-General, Ministers of the Crown, department heads, public servants and other public officers. (Judicial review ensures supervision by the executive arm of government of decisions made by the executive. Accountability of the executive is also achieved through other mechanisms such as the role of the ombudsman, freedom of information legislation, and privacy and anti-corruption legislation.) The subject deals principally with judicial review by the courts of decisions and actions of government. It also deals with some aspects of administrative law relating to non-governmental bodies. Administrative law is studied under the following broad topic areas: grounds of review of administrative decisions, in particular procedural fairness, ultra vires and jurisdictional error; and remedies available upon judicial review, including prerogative writs and equitable remedies. The subject also deals with judicial review; administrative review, especially the jurisdiction of the Administrative Appeals Tribunal Act 1975 (Cth) and comparable state legislation. The role of the Ombudsman, freedom of information and anti-corruption legislation is also reviewed. This subject aims to provide an understanding of:
• the central principles and the rights of the individual in dealing with government through administrative law, including the ideals of preservation of order, the welfare of the citizen, natural justice and the rights of the individual in contrast to governmental power
• the processes of institutions, both administrative and judicial, which regulate administrative action, and
• the institutions, legal principles, reasoning, constructs and techniques of administrative law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

70717 Evidence and Criminal Procedure
6cp
Requisite(s): 70218 Criminal Law OR 70217 Criminal Law AND 70417c Corporate Law AND (70517c Equity and Trusts OR 70516c Equity and Trusts)
Undergraduate and Postgraduate

This subject is based around the provisions of the Evidence Act 1995. Students study aspects of criminal procedure, as well as the rules about the admissibility of evidence. Topics include arrest, bail, police interrogation, the right to silence, types of evidence and the thresholds to the admissibility of evidence including relevance, hearsay, opinion, credibility, character, tendency and coincidence, discretionary exclusions, directions and warnings. Students examine the law reform processes that underpin the rules in NSW and federal courts and study the interpretation of these rules in judicial decisions.

Typical availability
Autumn semester, City campus
Spring semester, City campus

71116 Remedies
6cp
Requisite(s): 70516c Equity and Trusts OR 70517c Equity and Trusts
Undergraduate

This subject deals with the range of court-ordered remedies available to a plaintiff in civil proceedings. This subject brings together what students have studied or are studying in subjects such as equity, contract and tort into one coherent subject. The relevant theoretical and practical considerations that underpin remedies available to enforce rights and duties are also considered. The more common remedies are those administered either at common law or in equity and are under the following broad topic areas: damages; equitable remedies (declarations, specific performance, injunctions, account, equitable damages); and statutory and common law remedies for deceptive conduct. Bankruptcy and insolvency are also considered. This subject aims to provide an understanding of:
• the common law and equitable remedies available to a successful plaintiff
• the inter-relationship of common law and equitable remedies, and
• the relationship of common law and equitable remedies to statutory remedies.

Typical availability
Autumn semester, City campus
Spring semester, City campus

75402 Property Transactions
6cp
offered either on campus [lecture: 1hpw, workshop: 2hpw] or by distance requiring no on-campus attendance [lectures are taped for distance students] Requisite(s): (75412c Legal Skills AND (75420c Ethics and Professional Conduct OR 75415c Professional Conduct) AND [112 credit points of completed study in C04148c Master of Law and Legal Practice OR 108 credit points of completed study in C04236c Juris Doctor OR 156 credit points of completed study in C10124c Bachelor of Laws OR 156 credit points of completed study in C10125c Bachelor of Business Bachelor of Laws OR 156 credit points of completed study in C10129c Bachelor of Laws Bachelor of Arts in International Studies OR 156 credit points of completed study in C10131c Bachelor of Medical Science Bachelor of Laws)]
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate and Postgraduate

The subject explores the legal practitioner’s role in property transactions, including titles and strata title conveyancing transactions, commercial and residential leases, mortgages, finance, powers of attorney and options. Students learn and practise tasks in preparation for professional practice as an entry-level lawyer including a practice file for a residential conveyance and preparation of a commercial lease. Students develop their skills in applying their knowledge and understanding of the law in the context of property transactions. The subject encourages students to experience and reflect on some of the graduate attributes developed by the faculty.

Typical availability
Autumn semester, City campus
Spring semester, City campus
Access conditions are available in the individual subject descriptions in the online handbook.

The subject explores the legal practitioner's role in commercial and estate practice, including the sale and purchase of businesses, planning business structures, employer obligations, drafting and analysing wills, applying for probate or letters of administration and administering estates. Students learn and practise tasks in preparation for professional practice, as an entry-level lawyer in the areas of commercial and estate practice. The subject encourages students to experience and reflect on some of the graduate attributes developed by the faculty.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**75411 Practical Experience**

6cp  
Requisite(s): [1132 credit points of completed study in C04148c Master of Law and Legal Practice OR 108 credit points of completed study in C04236c Juris Doctor OR 156 credit points of completed study in C10124c Bachelor of Laws OR 156 credit points of completed study in C10125c Bachelor of Business Bachelor of Laws OR 156 credit points of completed study in C10129c Bachelor of Arts in International Studies OR 156 credit points of completed study in C10131c Bachelor of Medical Science Bachelor of Laws] AND 75412c Legal Skills

These requisites may not apply to students in certain courses. See access conditions.

Undergraduate and Postgraduate

Students in this subject undertake a minimum of 16 weeks of full-time or equivalent part-time work experience in a legal office environment. Practical experience placements must be approved in advance by the UTS Faculty of Law Practical Experience Committee and completed in accordance with the practical experience rules. Students must complete their practical experience work placement within five semesters of enrolling in this subject.

**75412 Legal Skills**

6cp; offered either on campus (1.5hpw lecture, 2hpw workshops as timetabled) or by distance requiring students to attend on Saturdays as timetabled for two days of workshops (all day) and two days for assessment in short blocks (1-2hrs); lectures are recorded and available on UTS online.

Requisite(s): [70417 Corporate Law AND (70717 Evidence and Criminal Procedure OR 71216 Law of Evidence) AND (1132 credit points of completed study in C04148c Master of Law and Legal Practice OR 108 credit points of completed study in C04236c Juris Doctor OR 156 credit points of completed study in C10124c Bachelor of Laws OR 156 credit points of completed study in C10125c Bachelor of Business Bachelor of Arts OR 156 credit points of completed study in C10129c Bachelor of Arts in International Studies OR 156 credit points of completed study in C10131c Bachelor of Medical Science Bachelor of Laws)]

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject introduces students to the skills and awareness that together form the professional persona of an effective legal practitioner. The skills of interviewing and advising, writing, drafting and negotiating are covered. The subject also examines the areas of human behaviour and practices that a lawyer needs to be sensitive to in order to be an effective practitioner. These include work management, legal aid, access to justice and disability and EEO issues.

The approach to problem solving is explored, discussed and developed as a law student is refined and redirected to become client centred. A lawyer's most valuable tool is the ability to communicate. Participation in workshops dealing with drafting, interviewing and negotiation tasks are designed to enable students to practice these key skills in a client-focused environment.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**75413 Advocacy**

6cp; off-campus students must participate in UTSOnline workshops during semester, and are also required to attend a two-day intensive during the UTS: Law non-teaching week and a three-day intensive during the final exam week.

Requisite(s): [1132 credit points of completed study in C04148c Master of Law and Legal Practice OR 108 credit points of completed study in C04236c Juris Doctor OR 156 credit points of completed study in C10124c Bachelor of Laws OR 156 credit points of completed study in C10125c Bachelor of Business Bachelor of Laws OR 156 credit points of completed study in C10129c Bachelor of Arts in International Studies OR 156 credit points of completed study in C10131c Bachelor of Medical Science Bachelor of Laws] AND 75412c Legal Skills AND (70717 Evidence and Criminal Procedure OR 71216 Law of Evidence) AND 75421c Civil Litigation)

These requisites may not apply to students in certain courses. See access conditions.

Undergraduate and Postgraduate

This subject develops the skills necessary to prepare for and present evidence and argument in court. The primary focus of the subject is on the techniques involved in examination-in-chief, cross-examination, re-examination, making objections to evidence and the presentation of an opening and closing address. On-campus students practice skills through attending workshops, participating in exercises, presenting a local court mention, a bail application, a plea of guilty, a defended hearing and preparing an interlocutory application in the District Court. Off-campus students participate in these activities online and demonstrate the skills in an intensive week on campus during the faculty non-teaching week and at the end of the semester. This subject aims to provide the skills necessary to:

- present a mention, bail application and plea of guilty
- develop persuasive argument and submissions
- prepare a defended matter for court using the 'proof making model', and
- conduct a defended matter including the presentation of evidence.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**75420 Ethics and Professional Conduct**

6cp; on campus

Requisite(s): [1132 credit points of completed study in C04148c Master of Law and Legal Practice OR 108 credit points of completed study in C04236c Juris Doctor OR 156 credit points of completed study in C10124c Bachelor of Laws OR 156 credit points of completed study in C10125c Bachelor of Business Bachelor of Laws OR 156 credit points of completed study in C10129c Bachelor of Arts in International Studies OR 156 credit points of completed study in C10131c Bachelor of Medical Science Bachelor of Laws]

These requisites may not apply to students in certain courses. See access conditions.

Undergraduate and Postgraduate

This subject provides a basis for the understanding of the ethical responsibilities of legal practitioners, including obligations relating to a solicitor's trust account. The lectures focus on the practical applications of admission to practice, including the basic requirement for the operation of a solicitor's trust account and alternative approaches to applying legal ethics. The practice of law requires an understanding
of the Legal Profession Act 2004 (NSW) and Legal Profession Regulation 2005 (NSW), the Professional Conduct Rules and case law. The integrative theoretical and applied approaches to legal ethics provide a framework in which students can better integrate ethical priorities within their own moral framework. The tutorials provide scenarios in which students can better understand and discuss the application of the rules as well as giving an opportunity to explore the various approaches to legal ethics. Workshops provide an opportunity for students to better understand the operation of trust accounting procedures.

### Typical availability

**Autumn semester, City campus**

**Spring semester, City campus**

#### 75421 Civil Litigation

6cp; 1hpw (lecture), 2hpw (workshop), on campus

Requisites(s): [70717c Evidence and Criminal Procedure](http://datasearch.uts.edu.au/evop) OR [71216c Law of Evidenc](http://datasearch.uts.edu.au/evop) AND [132 credit points of completed study in C04148c Master of Law and Legal Practice](http://datasearch.uts.edu.au/evop) OR [108 credit points of completed study in C04236c Juris Doctor](http://datasearch.uts.edu.au/evop) OR [156 credit points of completed study in C10124c Bachelor of Laws](http://datasearch.uts.edu.au/evop) OR [156 credit points of completed study in C10125c Bachelor of Business Bachelor of Laws](http://datasearch.uts.edu.au/evop) OR [156 credit points of completed study in C10129c Bachelor of Arts in International Studies](http://datasearch.uts.edu.au/evop) OR [156 credit points of completed study in C10131c Bachelor of Medical Science](http://datasearch.uts.edu.au/evop)

**Note(s)**

• Students who enrolled in a Bachelor of Laws before 2008 and who choose not to complete practical legal training may elect to enrol in a substitute law option subject in place of this subject if they have completed 71005 Practice and Procedure. Subject substitution applications are made through eRequest at: [http://datasearch.uts.edu.au/evop](http://datasearch.uts.edu.au/evop)

#### 75422 Transactional Practice

6cp

Requisites(s): [75420c Ethics and Professional Conduct](http://datasearch.uts.edu.au/evop) AND [75421c Civil Litigation](http://datasearch.uts.edu.au/evop) OR [168 credit points of completed study in C10124 Bachelor of Laws](http://datasearch.uts.edu.au/evop)

**Note(s)**

• Students who enrolled in a Bachelor of Laws before 2008 and who choose not to complete practical legal training may elect to enrol in a substitute law option subject in place of this subject if they have completed 71005 Practice and Procedure. Subject substitution applications are made through eRequest at: [http://datasearch.uts.edu.au/evop](http://datasearch.uts.edu.au/evop)

#### 75423 Litigation and Estate Practice

6cp

Requisites(s): [75420c Ethics and Professional Conduct](http://datasearch.uts.edu.au/evop) AND [75421c Civil Litigation](http://datasearch.uts.edu.au/evop) OR [168 credit points of completed study in C10124 Bachelor of Laws](http://datasearch.uts.edu.au/evop)

**Note(s)**

• Students who enrolled in a Bachelor of Laws before 2008 and who choose not to complete practical legal training may elect to enrol in a substitute law option subject in place of this subject if they have completed 71005 Practice and Procedure. Subject substitution applications are made through eRequest at: [http://datasearch.uts.edu.au/evop](http://datasearch.uts.edu.au/evop)
This subject has three components.

1. **Civil Litigation Practice**: this subject component deals with the theory of civil practice and procedure in NSW governed by the Civil Procedure Act and Uniform Civil Procedure Rules. Areas of study include identification of case theory, the merits of a case, litigation and alternative dispute resolution options, drafting of court documents including pleadings and affidavits, gathering of evidence and preparation for and engagement in an alternative dispute resolution activity (interests-based negotiation).

2. **Wills and Estate Practice**: this subject component covers drafting and advising on wills, obtaining grants, administering deceased estates, identifying issues and problems that arise in will drafting and estate administration and resolving and advising on these issues and problems.

3. **A choice of either:**
   - Option A (Family Law Practice component): this subject component covers advising clients about matters following the breakdown of a relationship, marriage or de facto. Students draft appropriate documents to be filed with the court and appear before the court, or
   - Option B (Criminal Law Practice component): this subject component covers advising a client and preparing a bail application, a plea of guilty and a brief to counsel to advise on the merits of the prosecutions case theory.

The subject encourages students to experience and reflect on the targeted graduate attributes developed by the faculty.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus

### 75424 Legal and Professional Skills

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<thead>
<tr>
<th>6cp</th>
<th>Requisite(s): 75420c: Ethics and Professional Conduct AND 75421c: Civil Litigation AND 168 credit points of completed study in C10124 Bachelor of Laws</th>
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<td>These requisites may not apply to students in certain courses. See access conditions.</td>
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This subject covers the skills, practice areas and values required of a law student to be admitted to practise law as prescribed by the 'competency standards' set out in the Sixth Schedule to the Legal Profession Admissions Rules 2005. The subject assumes an understanding of disciplinary knowledge taught in core law subjects in a relevant degree. In this subject, students learn and practise tasks in preparation for professional practice as an entry-level lawyer.

This subject focuses on the ability to demonstrate legal skills and the understanding of the ethical responsibilities of legal practitioners, including obligations relating to a solicitor's trust account. The practice of law requires an understanding of the legislative and regulatory environment in which the legal profession operates. The integration of practical and theoretical approaches to legal ethics and legal practice provides a basis from which students can better integrate ethical priorities within their own moral compass and develop personal priorities around resilience.

Participation in workshops dealing with drafting, interviewing and negotiation tasks are designed to enable students to practice essential skills in a client focused environment. The workshops also provide practical scenarios in which students can better understand the application of the conduct rules, the operation of trust accounting procedures and the application of resilience tools in the work place environment.

The subject encourages students to experience and reflect on the targeted graduate attributes developed by the faculty.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus

### 76001 Comparative Law

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<tr>
<th>6cp</th>
<th>Requisite(s): ([70120 Legal Method and Research OR 70105 Legal Research]) OR (70110 Introduction to Law AND 76006c: Public International Law)</th>
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<td>These requisites may not apply to students in certain courses. See access conditions.</td>
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Undergraduate and Postgraduate

This subject focuses on how different legal systems function in the world today. It examines current and past theories of comparative law in the context of globalisation and the internationalisation of law. It provides an introduction to each of the world's major legal systems and the way in which they are adapting to modern challenges. As well as the traditional comparisons of common, civil and socialist law, the subject considers the theory and practice of legal pluralism and the place of indigenous and religious based laws within state legal systems.

### 76002 Sports Law

<table>
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<tr>
<th>6cp</th>
<th>Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 70211 Contracts AND 70311 Torts</th>
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<td>These requisites may not apply to students in certain courses. See access conditions.</td>
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</table>

Undergraduate and Postgraduate

The law of sport and recreation is a commercial law subject. This is to be expected in an industry that is a major economic driver. Moreover, sport-based disputes seem to have an urgency about them that sees them litigated within a few weeks of a cause of action arising. With the growth of professionalism, the internationalisation of sport, media influence, sporting sponsorship and high profile sporting cases, sport once quarantined from the impact of the law, is now at the forefront.

Any sporting event generates a number of legal concerns, for example: what rights of appeal exist for non-selected athletes; issues concerning doping; to whom does a team doctor owe their duty of care; are athletes illegally exploited by major sporting organisations; when can an athlete be criminally charged for violent acts; do sporting disciplinary tribunals function legally; how should the sporting organisation deal with claims of discrimination; are coaches and clubs legally liable for the actions of their athletes; is it legal to exclude an athlete or member of the public from a sporting venue; when is a referee legally liable in tort.

This subject considers the law as it relates to sport in Australia and several areas of international interest. It is hoped that, where appropriate, a number of guest speakers from the sporting world will present mini-lectures on matters of interest in sport and its relationship with law.

### 76003 Asian Law and Legal Systems

<table>
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<tr>
<th>6cp; one semester</th>
<th>Requisite(s): ([70120 Legal Method and Research OR 70105 Legal Research]) OR (76006c: Public International Law AND 70110 Introduction to Law)</th>
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Undergraduate

The subject exposes students to another legal system. It is designed to introduce students to the reception of legal systems in the countries of East and South-East Asia, with special reference to the reception of English law and Islamic law by these countries.
76005 Islamic Law
6cp
Requisites: [60 credit points of completed study in C04148 Master of Law and Legal Practice OR (70110 Introduction to Law AND 76006c Public International Law)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Undergraduate and Postgraduate
The aim of this subject is to provide an introduction to Islamic law in theory and its practice as implemented in the modern world. Topics covered include:
• jurisprudence – reviews the origins and development of Islamic law, current issues such as codification and modernisation, and application of these principles in modern Muslim countries such as Malaysia and Pakistan
• family law and inheritance – examines the rules regarding marriage and divorce, custody of children and maintenance, the importance of the extended family, and developments in family planning law
• commercial, property and banking law – reviews new developments in these fields and looks at the model of an Islamic bank. Intellectual Property law is also considered.
• criminal law and evidence – looks at the classification of crimes, prescribed and discretionary punishments and evidence required for conviction, and
• Islam in Australia – gives an overview of the Muslim population in Australia today.

76006 Public International Law
6cp
Requisites: [70616 Australian Constitutional Law OR 70110 Introduction to Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Undergraduate and Postgraduate
This subject introduces students to the basic rules of public international law, with particular attention on the development of the law through the machinery of the United Nations in its relationship with the state, international organisations and even the individual. The subject covers the nature, characteristics and function of international law; the sources of international law; the law of treaties; the concept of state sovereignty and domestic jurisdiction; the relationship between international law, municipal law and the individual (including the international protection of human rights); statehood and sovereignty; personality, rights and duties of states; the recognition of states and governments; state succession; territorial sovereignty of the land and sea; maritime delimitation; jurisdiction of states (including jurisdictional competence, immunity from jurisdiction, asylum and extradition); immunities and privileges in diplomatic and consular relations; international organisations; and armed conflict and settlement of international disputes.

Typical availability
Autumn semester, City campus
Spring semester, City campus

76007 International Human Rights Law
6cp
Requisites: [70616 Australian Constitutional Law OR (70110 Introduction to Law AND 76006c Public International Law)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Undergraduate and Postgraduate
International human rights law is a body of law with important substantive and procedural aspects in its application. As a body of law that is designed to oversee the treatment of individuals and groups by the state machinery, it has significant implications for all countries and calls for a systematic, scholarly analysis to ensure its proper understanding and practice. As a discipline, international human rights law is relevant not only to societies with oppressive regimes, but also to those with sophisticated, democratic institutions. International human rights norms impose obligations on the state by ensuring that it is accountable internationally for the treatment of persons both at the hands of government institutions and officials and through the acts of other private persons. The aim of this subject is to provide students with knowledge of, and interpretive skills in, international and regional human rights law by examining the concept and history of human rights, the supra-national institutions and mechanisms concerned with the promotion and protection of human rights, the substantive legal principles governing the interpretation and application of international and regional human rights laws, and the issues associated with their implementation in the domestic sphere.

76008 Jurisprudence
6cp
Requisites: [70311 Torts OR 76006c Public International Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Undergraduate and Postgraduate
This subject deals with theoretical questions that are relevant to an understanding of the notion of law (e.g., What is the law of the state? Is there any other command, convention or the like that can also be called ‘law’?). It also includes a discussion of different approaches to the study of law (e.g., philosophical, sociological, historical, analytic, international, comparative) to determine its derivation, nature and function, as well as a discussion of the doctrines and techniques of legal analysis and evaluation. The various approaches are compared and criticised in the context of sociopolitical problems, conflicts and other phenomena. Topics here include sovereignty and the law, legal rights and duties, and law and ideology. Their treatment in the common law is examined. A number of theorists are considered, e.g. Austin and Dworkin.

76009 Introduction to Chinese Business Law
6cp
Requisites: [70211 Contracts OR (70110 Introduction to Law AND 76006c Public International Law)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions. Undergraduate and Postgraduate
With China's emergence as a new economic superpower, and with ever-deepening business ties between Australia and China, it is crucial that students gain an up-to-date understanding of Chinese business law and an awareness of major differences between Australian and Chinese legal and business cultures.
This subject adopts a case-based, problem-solving approach to focus on the following areas:
• current legal system and legal/business culture of China
• Chinese investment law environment and how it differs from Australia
• corporate structures and the status of business corporations in China since China's accession to the World Trade Organization (WTO)
• the legal environment for foreign entities doing business in and with China, potential risks and case studies
• China's WTO compliance and Australia-China Free Trade Agreement – case studies.
The subject is important for students wishing to understand the interactions between law, business, politics and culture in China today. Students are able to develop practical and research skills that assist them in understanding the business law environment in China in contrast to that of Australia.

Typical availability
Autumn semester, City campus
Spring semester, City campus
76010 Disability and the Law

6cp
Requisite(s): 70120 Legal Method and Research OR (76006 Public International Law AND 70110 Introduction to Law)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject explores disability and impairment as a legal category. Students are introduced to the various competing models of disability including: the medical model, the social construction model, the human rights model and bioethical, feminist and postmodern approaches to disability. In doing so, the subject takes an interdisciplinary and international comparative approach to conceptions and theories of disability and impairment. Students examine the practical implications of these models for the construction of legal rights and responsibilities with respect to persons with disabilities in a number of key areas of law. These include health law, tort law, criminal law, international law and anti-discrimination law. Specific issues examined include: treatment-limiting decisions for newborns, constraints on reproductive decision making, abortion for disability, end of life decision making; the therapy / enhancement distinction and body modification, the UN Declaration of Human Rights, the UN Declaration of the Rights of Disabled Persons and various state and federal anti-discrimination legislation. Key issues that students need to examine are the concepts of normal and disabled, healthy and diseased and able-bodied and impaired. This subject examines and evaluates how law can best achieve the goals of social justice and equality for individuals with disabilities.

76012 Criminology

6cp
Requisite(s): 70217 Criminal Law OR 70218 Criminal Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
Criminology is a broad subject encompassing both theoretical and practical approaches. Theoretical aspects of criminology include analyses of why people commit crime, appropriate responses to the commission (or potential commission) of crime, and theoretical justifications for punishment. Research in criminology focuses on specific topics, providing a combination of quantitative and qualitative analysis of factors such as the impact of ethnicity, gender, sexuality, etc., on the commission of crime and the criminal justice system's responses to crime. Students are invited to consider traditional and emerging analyses of criminology both in the abstract and applied to specific examples.

76013 World Trade Law

6cp
Requisite(s): (70120 Legal Method and Research OR 70105 Legal Research) OR (7606c Public International Law AND 70110 Introduction to Law)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
The rules of the World Trade Organization (WTO) underpin the conduct of international trade in about 150 countries and have direct relevance for governments, businesses and individuals. The WTO rules cover not just customs and tariffs, but also agriculture, industry development, quarantine and health, and environmental protection. This is a specialist subject on the WTO. The second half of the subject focuses on the Australian application of trade rules and domestic and international laws governing international transactions. On completion of this subject, students have a developed understanding of the basic legal principles underpinning the multilateral trading system; the key agreements; the dispute settlement mechanism of the WTO; and its institutional structure and the decision-making processes. Students also have an understanding of the application of the law to international transactions.

76015 Labour Law

6cp
Requisite(s): 70211 Contracts AND 70311 Torts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject examines individual aspects of Australian labour law under both judge-made law and selected legislation. Labour law is an important component of studies in the legal regulation of commerce. Students are introduced to the key aspects of laws which determine the rights, entitlements and responsibilities governing the relationship between employer and individual worker. Both practical and theoretical perspectives on individual labour law are examined. Topics covered include: employment and other categories of work relationships; formation and content of the employment contract; post-employment restraints; implied duties of employers and employees; employment terms and conditions under legislation; termination of the employment contract; unfair dismissal legislation; and unfair work contracts legislation.

76016 Advanced Revenue Law

6cp
Requisite(s): (76212 Revenue Law AND (70516c Equity and Trusts OR 70517c Equity and Trusts))
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject builds on the understanding obtained in previous study. It focuses on a deeper analysis in relation to a number of taxation issues including the taxation of companies, trusts and partnerships, further capital gains tax issues, aspects of international taxation, tax administration, and tax planning, with a consideration of anti-avoidance and ethical issues in tax planning.

76019 Broadcasting and Telecommunications Regulation

6cp
Requisite(s): 70120 Legal Method and Research OR 70105 Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject addresses the law regulating the structure of electronic communications in Australia. The subject covers the regulation of broadcasting, telecommunications and online content. It provides students with an understanding of the policy and legal framework and addresses such questions as who can provide these services; what regulatory obligations are imposed on businesses providing these services; how are these sectors regulated to ensure that competition is promoted and no persons have undue influence over communications in Australia; what rules are in place to ensure that Australians, regardless of wealth, location, etc. have access to communications services; and how does the law respond to the impact of new technology. This is a very topical course with a changing menu of current issues. Some current issues include provision of broadband services and access across Australia, the switch to digital technology and the regulatory response as traditional broadcasting and telecommunications frameworks give way to a global multi-platform delivery environment.

76020 Entertainment Law

6cp
Requisite(s): 70211 Contracts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject aims to provide students with a detailed and practical understanding of the legal environment of the entertainment industries in Australia. The focus of the subject is the transactions concerned with the production and distribution of content - film and television, recordings, music publishing and new media. The discussion of laws relating to the entertainment industries is placed within the broader commercial and artistic context of the
entertainment business, including the impact of new media in creating new formats and a more global market, the roles of different parties, the structure and major players in the Australian industry and the processes of production and distribution. In particular, this subject aims to provide students with an understanding of the role of the entertainment lawyer and the practical knowledge and skills required to handle the transactional issues associated with the production and distribution of creative content.

76021 Advanced Remedies
6cp
Requisite(s): [70311 Torts AND 70211 Contracts AND (70516 Equity and Trusts OR 70517 Equity and Trusts)]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject deals with the range of self-help and court-ordered private remedies available to a plaintiff in civil proceedings. It brings together what students have studied or are studying in subjects such as equity, contract and tort into one coherent subject. A plaintiff often has more than one cause of action, and more than one remedy, and complete advice requires a comparison and evaluation of the alternatives. This subject aims to provide an understanding of the common law, equitable and statutory remedies available to a successful plaintiff, their interrelationship and the practical and theoretical considerations that underpin them.
The first half of the subject covers non-monetary remedies, commencing with self-help remedies, declarations and interlocutory relief. Enforceable (or coercive) non-monetary remedies, which are generally equitable or statutory, are then covered: the general remedies of injunction and specific recovery; and the mostly contract-specific remedies of specific performance, rectification, rescission and their statutory extensions. The remainder of the subject covers monetary remedies, generally described as ‘damages’, which are available in law and equity.

76022 Insurance Law
6cp
Requisite(s): 70211 Contracts AND 70311 Torts
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject examines the principles and rules that make up Australian insurance law. Its central focus is on the rights and liabilities of the insurer and the insured, as determined by their contract of insurance, the general law and statute. Concepts such as indemnity, subrogation, utmost good faith, the duty of disclosure, insurable interest, conditions and warranties lie at the heart of most insurance arrangements. The role of insurance intermediaries is examined. Some forms of insurance are mandatory under statute (e.g. motor vehicle compulsory third party insurance; workers compensation insurance; home warranty insurance), but are not studied in detail. The impact of the Insurance Contracts Act 1984 (Cwlth) on the rights and liabilities of insurer and insured is substantial, affects most insurance contracts commonly entered into today, and is closely studied. In the final lecture the subject also overviews some of the specialist areas of insurance law in Australia and internationally.

Note(s)
This subject was formerly called Law of Insurance.

76024 Environmental Law
6cp
Requisite(s): 70211 Contracts AND 70311 Torts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
As a field of study, environmental law deals with the rules, relationships, systems and processes by which environmental protection is achieved. This subject grounds students in an introduction to the foundations of environmental law at the international, federal, state and local government levels. It introduces students to the nature and conceptual notions of environmental law with a view to enabling them to undertake more specialised courses in environmental law, either at the undergraduate or postgraduate level, such as water law and policy, international environmental law and international trade law and the environment. Topics covered in the subject include:
- the philosophy of environmental law
- international environmental law and domestic implementation of multilateral environmental agreements
- constitutional support for environmental actions
- legislative framework at the federal, state and local government levels
- principles of ESD and courts interpretation of these principles
- the Environmental Protection and Biodiversity Conservation Act 2009 (Cwlth)
- NSW pollution legislation, the Protection of the Environment Operations Act 1997
- system of regulation and management of natural resources in NSW
- case studies of current environmental issues
- environmental institutions and resolution of environmental disputes.

76025 International Organisations
6cp
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
The proliferation of intergovernmental and non-governmental organisations is one indicator of the internationalisation of social life and the interdependence of states in the early 21st century. This subject examines the principal legal issues concerning organisations composed of states. These include the legal status and powers of organisations, membership and participation, norm-creation, dispute settlement, enforcement of decisions, peace and security activities and finally the organisations’ privileges and immunities as well as their legal status and powers under national law.
At the same time, the subject addresses real-world problems such as the creation of international criminal courts, the ‘succession’ of Russia to the USSR’s seat on the UN Security Council, the response to the break-up of Yugoslavia, the jurisdictional issues in the Lockerbie-case, the possibility of judicial review of acts of the UN Security Council, the success of WTO dispute settlement, NATO action against Serbia in 1999, the military intervention in Afghanistan and Iraq in the aftermath of 9/11 and the UN administration of Kosovo and East Timor.
Primary consideration is given to the development of the United Nations. Other universal organisations such as ILO, the Bretton Woods institutions, WTO or ICAO, as well as regional ones such as the Council of Europe, the EU and others are also dealt with. This subject does not try to provide a comprehensive picture of all of these organisations, rather it aims at helping students understand the common legal problems faced by international institutions.

76027 Competition Law
6cp
Requisite(s): 70211 Contracts AND 70311 Torts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject provides a comprehensive, in-depth and engaging examination of the economic and legal principles of competition law (also known as antitrust law or restrictive trade practices law) in Australia. It examines statute law, Part IV of the Competition and...
Consumer Act 2010 (Cwlth) (CCA) (formerly Part IV of the Trade Practices Act 1974 (Cwlth) (TPA)), the decisions of the common law Courts in interpreting the Act, as well as some international treaties on antitrust law enforcement, of which Australia is a party. Current issues and recent cases on competition laws and policies in Australia are also examined.

The subject covers the economic functioning of markets, market power and competition; the relationship between antitrust-related statute law, common law and economics; the evolution and objectives of Australian competition law and the administration and enforcement of competition law, both nationally and internationally.

The subject also covers:
- an overview of the evolution of competition law, including the reasons for the competition law, the economic functioning of markets, market power and competition, the relationship between economics and competition law, and the legislative feature of the Australian competition law
- an in-depth examination of major anti-competitive statutory conduct in Part IV of the CCA, including mergers/acquisitions, misuse of market power, exclusionary conduct, monopolistic agreements/arrangements, exclusive dealing, and resale price maintenance
- examination of the administration and enforcement of completion law in Australia, including the roles of the Australian Competition and Consumer Commission, the Australian Competition Tribunal, and the Courts. It includes also authorisation and notification regimes, remedies for private litigants and other related matters
- examination of major international treaties on antitrust law enforcement, of which Australia is a party, and major international antitrust cases in which Australia is involved.

**Typical availability**
Spring semester, City campus

**76030 Genetics and the Law**
crp
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research
There are also course requisites for this subject. See access conditions.

This subject examines the scope and limitations of existing regulation of genetic technologies with respect to humans. It also considers recent scientific and technological innovations in the area of human genetics and the role and effectiveness of law in managing these new developments. The role of law as a means to control both the development of new genetic technologies and the utilisation of existing technologies is also evaluated. This includes a specific focus on individual decision-making versus responsibility for genetic risk, individual versus group rights, genetic privacy, genetic discrimination, reproductive autonomy, and ownership and control of genetic information and research developments. Specific issues covered include regulatory limits on the use of genetic screening of adults, children and newborns; prenatal genetic testing and genetic testing of adults and children; the regulation of genetic registers, protecting genetic information privacy and the problem of familial information; measures to control genetic discrimination in employment and insurance; the regulation of genetic research through the NHMRC guidelines and other means; the regulation of genetics in medical research including gene therapy, inheritable genetic modification, stem cell research and human somatic cell nuclear transfer (cloning technologies); and the establishment of biobanks and the concept of genomic property.

**76034 Law of Slavery and Human Trafficking**
crp
Requisite(s): 70616 Australian Constitutional Law AND 70120 Legal Method and Research AND 70115 Perspectives on Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Slavery and human trafficking are transnational crimes. This subject comprehensively explains and evaluates international and domestic responses to slavery and human trafficking within an international law and human rights framework. While the subject addresses international law, it does so with an appreciation of the practical application of the law. The subject draws students to a critical evaluation of the state’s responsibility to protect and support, and develop effective criminal justice responses. Areas covered include: the legal definitions; the international legal framework; the intersection between migrant worker exploitation, slavery and trafficking; the gender implications of slavery; trafficking and refugee law; and trafficking as a crime against humanity. State responsibility at international law is reviewed to develop a sound knowledge of the state’s obligations to protect and support as well as to promote the application of effective remedies. An effective domestic and international criminal justice response is critical in the development of a framework to prevent trafficking and ensure prosecution of transnational crimes. The dimension of slavery and trafficking—the link between such transnational crimes, economic opportunities, substandard working conditions and migration—is explored. Vulnerability to trafficking, the issues of demand and the supply chain, and corruption are addressed, as well as compliance standards, monitoring mechanisms and the role of civil society. Finally, the course concludes with consideration of a body of international literature which is critical to the implementation of anti-trafficking measures. At the end of the course, students are expected to have a deep understanding of the principles of international law and their application within the Australian domestic context. Students also gain sophisticated insight and understanding of the application of international law through a comprehensive evaluation of selected areas of law.

**76036 International Trade Law and the Environment**
crp; distance
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

The trade and environment debate conceals the problematic relationship between two legitimate interests of the international community. This subject introduces students to the significant international trade law, environmental law and transnational crimes. The dimension of slavery and trafficking—the link between such transnational crimes, economic opportunities, substandard working conditions and migration—is explored. Vulnerability to trafficking, the issues of demand and the supply chain, and corruption are addressed, as well as compliance standards, monitoring mechanisms and the role of civil society. Finally, the course concludes with consideration of a body of international literature which is critical to the implementation of anti-trafficking measures. At the end of the course, students are expected to have a deep understanding of the principles of international law and their application within the Australian domestic context. Students also gain sophisticated insight and understanding of the application of international law through a comprehensive evaluation of selected areas of law.
6cp; availability: by invitation only
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND [70217 Criminal Law; OR 70218 Criminal Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This elective encourages participation in the Jessup International Moot. The moot is organised by the Association of Student International Law Societies, which operates under the auspices of the American Society of International Law in Washington. The workload involved is particularly demanding; the problems circulated are on complex and current issues of international law. Detailed research into both international and comparative law is essential to prepare complex pleadings for both sides with a maximum size prescribed. The work involved is certainly no less than that for a large research project. The memorials are assessed by memorial judges, often including distinguished teachers of international law. In addition, there is the rules of the Jessup Moot, no assessment is available until after rounds. The top eight teams move on to the final rounds. Because of distinguished teachers of international law. In addition, there is the workload involved in an informed manner on the future of the protection of the environment in the multilateral trade and investment regime and be able to critically assess the prospects for future harmonisation of global free trade regimes and ESJ principles.

76039 Jessup International Moot

6cp; availability: by invitation only
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject critically examines the major forms of crime which affect about mental illness. Students should also demonstrate success in the teamwork, involving the ability to participate in collaborative learning activities face-to-face as well as the development of independent learning skills.

76038 Law and Mental Health

6cp
Requisite(s): 70311 Torts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject is designed to give students an introduction and overview of the interface between the disciplines of psychiatry and law. It examines how the empirical research and theories of psychiatry intersect with the application of legal principles and practices. As a result of successfully completing this subject, students should be able to translate personal and/or social issues concerning the study of mental illness into the practice of mental health law, and evaluate the efficacy of different perspectives in relation to contemporary debates about mental illness. Students should also demonstrate success in the teamwork, involving the ability to participate in collaborative learning activities face-to-face as well as the development of independent learning skills.

76040 Research Thesis

6cp; availability: all students in LLB and LLB combined programs, and who are in line to receive their law degree with Honours
Requisite(s): 70120 Legal Method and Research OR 70105 Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject comprises the research and writing of a supervised thesis on an approved topic in law. The thesis is of a length within the range 8000 to 12,000 words. Undertaking this subject provides an opportunity for undergraduate law students to further develop and refine their legal research and writing skills, as well as explore andanalyse a topic of law of their own choosing.

In most cases, the research thesis extends and develops research done in one, or more, of the elective subjects already undertaken. But in appropriate circumstances, a candidate may undertake a new topic.

It is a requirement under UTS: Law honours rules that this subject must be undertaken before a student can be awarded an undergraduate law degree with honours. Undergraduate students who are not in line to receive their law degree with honours are not normally approved to enrol in this subject. Students should consult the honours (see page 97) rules in the UTS: Handbook for information about requirements for the award of honours at graduation (note: from 1 January 2010 marks received for law exchange subjects are not included in any determination of marks either for application to undertake a research thesis or for the final award of the LLB with honours).

Typical availability
Autumn semester, City campus
Spring semester, City campus

Note(s)
This subject was formerly called Research Project 4.

76041 Climate Law and Carbon Markets

6cp
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject examines climate change, which is one of the most pressing environmental problems of our era. It is a major business issue that is affecting law, policy and corporate behaviour. The Intergovernmental Panel on Climate Change (IPCC) has said that to avoid irreversible harm to the planet, we must stabilise greenhouse gas emissions, and this will involve a significant and rapid reduction in ‘business as usual’. It will involve unprecedented cooperation at the international level as well as innovative national responses. This subject examines the potential role of the international and policy communities as well as the legal and business communities in confronting climate law. It analyses the existing and emerging legal rules and frameworks, both internationally and in Australia, the impacts of these on business and the response from industry. It critically evaluates the incentives for firms to comply and over-comply with environmental laws and participate in voluntary programs, and examines the role of business in adaptation measures and climate justice issues.

76042 Electronic Communications Content Regulation

6cp
Requisite(s): 70617 Administrative Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject explores the laws that affect participants in Australia’s communications industries. Telecommunications, broadcasting and the print media have been the traditional focus of this subject, but the blurring of the boundaries of these media, in particular the exponential growth of the Internet, now requires a much broader approach. The subject is divided equally between the laws which affect the content (words, sounds and pictures) published/transmitted in these media, and the laws which affect the conduct of the corporations providing...
communication services. The wide powers given to the ACCC to prevent anti-competitive conduct in a market which, until recently, Telstra dominated through a statutory monopoly, are considered. The Broadcasting Service Act 1992 (Cwlth), in particular electronic media censorship, and the complex provisions known as ‘cross-media’ rules are considered, as is the role of the Australian Broadcasting Authority, and industry self-regulation schemes.

76043 Building and Construction Law
6cp
Requisite(s): 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject examines the legal and commercial relationships that typically are brought into existence during residential and commercial building and construction projects. It examines the roles of the various project participants such as clients, project managers, design and engineering professionals, cost consultants, contractors and subcontractors with particular reference to their contractual roles and responsibilities. The subject canvases the various ways in which projects are procured with reference to various forms of contract and the risks associated with each procurement method. Students are also made aware of the various ways in which the practical and legal risks can be managed through effective risk distribution and contract drafting. Some aspects of the legislative framework within which both the residential and commercial sector operates will be considered together with examples of various practical applications. Suitable dispute resolution processes are explained together with the use of expert evidence in the litigation of building and construction disputes.

Typical availability
Autumn semester, City campus
Spring semester, City campus

76045 Medicine and Law
6cp
Requisite(s): 70311 Torts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject deals with the aspects of law relevant to health care. There are many issues that can arise as health law is an ever evolving and diverse area. It is subject to both local and overseas influences and regulation is challenging. When studying health law, many areas must be considered, such as human rights, ethical practice, the advancement of medical technology, social policy, governance and the many vested interests. The subject examines the issues that confront health-care professionals and their patients and peers, in particular in the context of continuing systemic and resource problems. This includes the handling of complaints against health-care practitioners, the regulation of the various health professions, the outcome of parliamentary inquiries and the history and findings of the various nyal commissions. Other important areas such as medical negligence, consent to treatment, access to and ownership of medical records, privacy and confidentiality, euthanasia, wrongful birth, wrongful life and abortion, complementary and alternative medicine, organ donation, public health law issues such as tobacco, alcohol and obesity are examined and discussed.

76047 Advanced Contracts
6cp
Requisite(s): 160 credit points of completed study in C04148 Master of Law and Legal Practice AND 70211 Contracts AND (70516 Equity and Trusts OR 70517 Equity and Trusts)
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject focuses on how contract law assists in the negotiation and enforcement of agreements, as well as the resolution of disputes arising out of agreements. It deals with selected areas of practical relevance and legal difficulty in the application of principles of contract law to various transactions (electronic transactions, uncertainty, the exercise of judicial discretion to fill gaps in agreements, implied terms, good faith, breach and termination of contracts); the intervention of equity (estoppel, penalties, restitution, unconscionability); legislative intervention (Competition and Consumer Act 2010 (Cwlth) (including schedule 2, Australian Consumer Law), Fair Trading Act 1987 (NSW), Contracts Review Act 1980 (NSW)); and the relationship between tort law and contract law.

76048 Citizenship and Immigration Law
6cp
Requisite(s): 70617 Administrative Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject promotes an analytic examination of major legal and policy issues in Australia. The subject deals with the development of a distinct Australian citizenship and Australian immigration law. A primary focus is on the analysis of constitutional law issues, the legislative framework, policy responses and examination of international law principles. Recent developments in Australian nationality and citizenship law are evaluated within the context of acquisition of Australian citizenship, passport control and the statutory concept of entry to Australia. Australian migration law is about the control of those who are not Australian citizens. This subject examines the legal and policy framework controlling Australian immigration including the development of the universal visa system, the operation of the Migration Act 1958 and Migration Regulations 1994, the distinctions between lawful and unlawful non-citizens, visa acquisition and cancellation, the controversial character and deportation provisions and administrative and judicial review of adverse citizenship and immigration decisions. Specific themes include an analysis of the migration program, immigration detention, skilled and temporary visa entry, the national skill shortage, comparative guest worker schemes, humanitarian considerations, ministerial discretion, refugee visas, irregular migration, global trends, the status of migrant workers, people smuggling and human trafficking. The statutory scheme established to regulate migration agents is also reviewed. This subject aims to provide an understanding of:

- the historical development of citizenship and immigration law in Australia
- the effectiveness and fairness of Australian migration legislation and policy
- the legislative schemes: primarily the Migration Act and Migration Regulations, the Australian Citizenship Act 1973, relevant policy and case law
- the major permanent visa programs and temporary entry visas
- visa refusal, cancellation and review
- acquisition, grant, loss and deprivation of Australian citizenship
- the operation of the Migration Agents Registration Authority.

76050 Commercial Trade and Transport Law
6cp
Requisite(s): 70211 Contracts AND 70317 Real Property
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject examines the various sources of law that govern and impact upon the trade and transport of goods to and from Australia. The first part covers commercial maritime law. Topics examined include an overview of international trade processes; Australia's trade and transport industry; the international and Australian sources of law that regulate commercial shipping activities; maritime law concepts on the ownership, financing and arrest of ships; maritime transport documentation including bills of lading and charter parties; sources of liability; liability limitation; and marine insurance. The second part covers commercial aviation law. Topics examined include the international and Australian sources of law regulating the carriage of goods by air and aviation insurance. The subject concludes by examining recent international developments relating to the multimodal transport of goods.

Typical availability
Autumn semester, City campus
Spring semester, City campus
76052 Dispute Resolution Advocacy
6cp
Requisite(s): 70516c Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject deals with the jurisprudence of dispute resolution, and the theory, dynamics and essential characteristics of the major dispute resolution processes, so that effective strategies for resolving a wide range of disputes can be formulated. There is a two-day intensive weekend component in the course for negotiation and mediation exercises and simulations. The subject's emphasis is on the role of lawyers in dispute resolution processes; advising clients on, and preparing clients for, suitable dispute resolution processes; the institutionalising of dispute resolution processes; the nature of disputes and the theoretical, ethical and practical issues.

Typical availability
Autumn semester, City campus

76053 Industrial Law
6cp
Requisite(s): 70618 Australian Constitutional Law AND 70311 Torts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject examines collective aspects of Australian work law with a principal focus on the federal legislative collective work relations system. Industrial law is an important component of studies in the legal regulation of commerce. Students are introduced to the key aspects of law which determine the rights, entitlements and responsibilities governing the relationship between employers, on the one hand, and groups of workers and their trade unions on the other. Both practical and theoretical perspectives on industrial law are examined, with appropriate comparison of Australian industrial law with relevant international standards and law in overseas jurisdictions is made. Topics include: the history and constitutional basis of Australian industrial law; international standards and Australian industrial law; the safety net of minimum terms and conditions; agreement-making; collective bargaining; industrial action; freedom of association; transfer of business; and information, consultation and decision-making rights.

76055 Mining Law and Regulation
6cp
Requisite(s): 70417 Corporate Law AND 70317 Real Property
There are also course requisites for this subject. See access conditions.
This subject examines the various Australian laws and regulations that govern and impact upon investment in the mining industry. Topics examined include: the history, development and current status of mining regulation in Australia; key mining law concepts – such as the ownership of minerals, mining tenements, mining claims, and the regimes for the payment of royalties; the State and Territory licensing regimes governing mineral exploration and extraction; and the laws governing investment across the life cycle of mining operations (exploration, set up of mining operations, extraction of minerals, the sale and export of minerals, and the sale of mining assets). This includes the relevant provisions of the Corporations Act 2001 (Cwlth) relating to corporate fundraising (Ch 6D) and mergers and acquisitions (Ch 6C); the Foreign Acquisitions and Takeovers Act 1975 (Cwlth); the ASX Listing Rules, and the JORC Code for the Reporting of Mineral Resources and Ore Reserves. The subject also examines the use of joint venture structures in the mining industry.
Other issues examined include native title, environmental law considerations, infrastructure access, the regimes for the onshore and offshore extraction of petroleum and gas, and the legal framework for dispute resolution. The subject concludes by briefly examining some of the current issues impacting on the Australian mining industry such as carbon taxing and trading, and the proposed Mining Resources Rent Tax.
The subject involves a comparative consideration of the laws across the Australian states and territories and is not limited to New South Wales.

76056 Intellectual Property Commercialisation Overview
6cp
Requisite(s): 78025 Intellectual Property: Law and Policy
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
This subject aims to provide a comprehensive survey of much of the law and some of the business and economics of commercialising and licensing Intellectual Property (IP) rights. The course is interdisciplinary as it explores the business and economic aspects of IP licensing and investment in IP development in the context of a detailed legal framework for IP licensing and investment. It includes consideration of relevant IP laws, competition law, compulsory and voluntary licensing, contract and consumer laws, personal property security (PPS) law, foreign investment laws, and selected issues in international practice. Moreover, the course involves practical skills training in drafting and negotiating licenses as well as practice focused exercises that will give students a better sense of the deal making process in licensing transactions both in Australia and abroad.
This subject includes three parts. Part I explores the business and economic aspects of IP commercialisation and licensing, including the connection of IP and economic development, the scope of a license, how licensors make money, and how business people estimate the economic value of IP and licensing rights. Part II discusses legal considerations in IP commercialisation and licensing, including relevant IP law in both international and domestic levels, competition law, laws related to licensing, IP valuation and securitisation, and selected issues in international practice, including jurisdiction and law enforcement. Part III involves practice or ‘skills’ training in negotiating and drafting licenses and getting a ‘sense of the deal’ in licensing transactions.

Typical availability
Autumn semester, City campus
Spring semester, City campus

76063 Media Law
6cp
Requisite(s): 70311 Torts AND 70616 Australian Constitutional Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject looks at legal regulation of media content. Throughout the subject, students analyse laws that restrict what the media can publish or distribute. Topics include freedom of speech, defamation, contempt, hate speech and vilification, obscenity and pornography, sedition and the regulation of the internet. Through close examination of cases and literature, students are required to critically consider the nature of power, democracy and liberalism, as they relate to law and the mass media.

76066 Children and the Law
6cp
Requisite(s): 70721 Criminal Law OR 70218 Criminal Law AND 70311 Torts AND 70616 Australian Constitutional Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This elective subject is designed to enhance undergraduate studies in core law subjects as they relate to children; in particular constitutional law, criminal law, contracts, torts and the law of evidence. It also complements elective studies in family law and succession. The subject has been designed to combine both a theoretical and a vocational approach to the study of these issues and not only benefits students interested in these issues, but also those students considering a career in legal practice and/or the delivery of children's legal services. The emphasis is on issues such as child development theory, children's rights, juvenile justice, care and protection, education rights and responsibilities, and the legal representation of children. Issues such as adoption, employment, property ownership and succession issues, civil liability, and medical procedures and treatment may be covered.
in assessment options. This is not a strictly 'black letter' subject; the present law in New South Wales is considered as well as the historical development of law relating to children, proposed reforms, and comparative material from other jurisdictions. Material from other disciplines, such as criminology, sociology, and developing brain research is also incorporated, as appropriate.

76068 Indigenous Peoples and the Law
6cp
Requisite(s): [(70120 Legal Method and Research OR 70105 Legal Research)] OR [70110 Introduction to Law AND 76006c Public International Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

The relationship between Indigenous peoples and the law goes to the foundation of Australia's legal and political identity. This subject considers a range of historical and current issues between Indigenous peoples and the law. Competition for land ownership has defined and driven race relations in Australia. This subject examines the historical dispossession of Indigenous people with reference to how this has impacted on current legal relations and debates. Aboriginal and Torres Strait Islander peoples' dispossession by law and war, together with the Mabo decision, is evaluated. Land rights legislation, native title legislation and subsequent common law developments are also considered. Indigenous Australians are also the most incarcerated people in the world.

Considering this, their relations with the criminal justice system with particular reference to community police relations is discussed. Also, the policies of dispersal of communities and the forced removal of children from their families are considered, with particular reference to current impacts in areas such as welfare law, juvenile justice and family law. The issue of self determination is also considered in depth. Between 1972 and 1995 all federal governments had a policy of self determination with regard to Indigenous peoples. The meanings and implications of this policy are examined in the context of self determination policies in comparable countries such as Canada and the United States. Consideration is given to the formation and role of Indigenous corporations, Australian and Canadian models of self government, the Aboriginal and Torres Strait Islander Commission (ATSIC) and international standards and developing norms with respect to self determination. In light of the Australian Government's decision in 2004 to abolish ATSIC, the shift from policies of self determination to 'practical reconciliation' is also evaluated.

76069 Community Justice Studies
6cp
Requisite(s): 70417 Administrative Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

Community Justice Studies fosters vital legal skills. The subject is taught in two parts. First, students review contemporary literature about the practice of public law within a social justice and community context. Key areas include the ethics of practice, identification of areas of legal need in the community and access to justice. Second, students choose to engage in a public law or community activity from a broad range of options. For example, students are encouraged to engage in practice-based learning and may elect to further their experience through a relevant work placement. Students may also prepare community legal education for community groups. Students in this elective research, develop and deliver plain language presentations or short courses about legal issues for communities. Community legal education focuses on practical law, affecting members of communities in their daily lives, including consumer protection law, tenancy law, health law, domestic violence, dispute resolution, apprehended violence orders, succession, immigration law and other areas. Research is a critical skill and this subject allows students to develop policy, analytical and legal skills by completing a research publication such as a law reform submission or submission to a parliamentary committee.

The subject introduces students to the dynamics of law reform and community engagement and fosters an understanding of the practice of public or community-based law by giving students an experience and direct knowledge of the law in practice.

Typical availability
Autumn semester, City campus
Summer session, City campus

76070 Biomedical Law and Bioethics
6cp
Requisite(s): 70120 Legal Method and Research OR 70105 Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject analyses the effectiveness of law in regulating new medical developments. The subject examines the impact that emerging biomedical technologies have on society and explores legal solutions that deal with the challenges presented by such technologies. A diverse and wide range of biomedical issues are considered, such as genes, cloning, euthanasia, medical experimentation and research, reproductive technology and surrogacy.

76074 Australian Civil Liberties Law
6cp
Requisite(s): [(70217 Criminal Law OR 70218 Criminal Law) AND 70616 Australian Constitutional Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject aims to acquaint students with case and statute law relevant to the protection of civil liberties in Australia. It explores the relationship and dynamic between the individual and the state in a legal and political framework. It examines the institutions (at a Commonwealth and state level) and organisations established to protect civil liberties and legal issues associated with their operation. Students become acquainted with current legal issues in the protection of civil liberties in Australia and research issues using Australian and comparative legal material and non-legal materials. Topics are discussed in an informal but considered way.

76075 Contemporary Legal Studies 1
6cp
For subject description, contact UTSS: Law.

76076 Contemporary Legal Studies 2
6cp
For subject description, contact UTSS: Law.

76080 Finance Law
6cp
Requisite(s): 70417 Corporate Law AND 70517 Equity and Trusts AND 70327 Commercial Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject considers the legal framework within which commercial enterprises raise debt finance. Various forms of secured and unsecured finance are considered, including project and asset financing arrangements and securitisation. Methods for protecting unsecured loans are also covered including negative pledge lending, guarantees and debt subordination agreements. The subject provides a detailed examination of the new Personal Property Securities Act 2009 (Cwlth). Key aspects of tax and insolvency law as well as cross border issues are also discussed.

76081 Gender, Law and Sexuality
6cp
Requisite(s): [(70120 Legal Method and Research OR 70105 Legal Research)] OR [70110 Introduction to Law AND 76006c Public International Law]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate

This subject explores legal issues regarding sexuality and gender in a cross-doctrinal and interdisciplinary context. The subject introduces students to legal scholarship that takes a feminist perspective and
considers the multitude of ways in which law constructs and regulates individuals and families by reference to their gender and sexuality. In doing so, the subject traverses and re-traverses various legal doctrinal areas, such as criminal law, international law, family law, anti-discrimination law and so on. However, the focus is not on the legal rules as such, rather the purpose of the subject is to provide a solid theoretical foundation that enables students to understand links between various legal doctrines and practices that have contributed to inequality.

**76082 International Regulation of Financial Institutions**

6cp  
Requisites: 70417 Corporate Law  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

Although the activities of financial institutions (FIs) are frequently international in nature, governments have traditionally viewed FIs and their regulations as a national matter. During the recent Global Financial Crisis (GFC) the financial markets of the world came to a standstill and liquidity virtually vanished. Government intervention by a number of nations eventually prevented a total collapse. Thus, the GFC forced recognition of its international dimension and of the interconnectedness of all financial markets and most major FIs. This subject deals with the nature of the proposals adopted to prevent a subsequent GFC. A number of steps have been taken, but the US enactment of the Dodd-Frank Act (DFA), in particular, may be viewed as a template for developing an international FI regulatory regime. The subject is designed to provide: an analysis of the GFC and its causes as well as the world economy out of which it grew; a description of the international regime following the DFA and actions taken by other significant economies; a brief description of the ways in which hortatory declarations are implemented by domestic action; insight into the vitally important Basel Capital Accords; and treatment of the equally important international/domestic accounting requirements.

**Typical availability**

Spring semester, City campus

**76112 Conflict of Laws**

6cp  
Requisites: 70311 Torts AND 70616 Australian Constitutional Law  
There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject examines the interaction of two or more legal systems, specifically focusing on the international jurisdiction of the Australian courts, the recognition and enforcement of foreign judgments and decrees, and the problem of choice of law as it arises with respect to areas such as marriage, matrimonial causes, contract, torts, inter vivos property transactions and succession. The subject also deals with choice-of-law issues as they arise between the Australian states.

**76115 Insolvency**

6cp  
Requisites: 70120 Legal Method and Research  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject provides an introduction into the protection and regulation of insolvent individuals and corporations. The subject aims to discuss insolvency within the social context and impact of insolvency law. Students examine the legal procedure involved in insolvency law (such as bankruptcy petitions, lodging proofs of debt and distribution of insolvent estates) as well as the impact of insolvency upon stakeholders such as employees, unsecured creditors, and individual and corporate debtors. Both individual and corporate insolvency are examined. All aspects of personal and corporate insolvency will be discussed but the subject places particular emphasis on discussing powers of insolvency administrators, voluntary administration, liquidation and the rights of creditors.

**76212 Revenue Law**

6cp  
Requisites: (70417 Corporate Law AND 70617 Administrative Law) OR 70327 Commercial Law  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

In this subject students examine the legal principles that relate to revenue law in Australia. Topics covered include the structure and sources of tax law in Australia; tax policy and tax reform; income - concepts of income, income from labour, property and business, statutory extensions to the income base; deductions - general and specific deductions, substantiation; capital gains tax; fringe benefits tax; tax accounting; tax administration; tax avoidance and ethics.

**76516 Family Law**

6cp  
Requisites: 70616 Australian Constitutional Law AND 70317c Real Property  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This elective subject introduces undergraduate students to the principles that govern the laws, rights and obligations of parties in parenting and/or interpersonal relationship disputes. The legal recognition and regulation of different types of domestic relationships and families, including married, de facto (same-sex and opposite-sex) and other domestic relationships is considered. The subject covers four main areas:

- the historical and current development of family law, including constitutional and jurisdictional issues; and principal relief (divorce and nullity)
- children and parental responsibility (parenting disputes)
- spousal maintenance and child support (family support)
- claims and agreements in relation to property (property settlement).

The subject combines both a theoretical and a vocational approach to the study of these issues, which not only benefits students interested in these issues, but also those students considering a career in legal practice and/or the delivery of family law-related services. Emphasis is also given to the practical and social policy issues in each of these areas, including the impact of family violence and the growing awareness of children’s rights.

**76517 Succession**

6cp  
Requisites: 70516 Equity and Trusts OR 70517 Equity and Trusts  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate

This subject takes both a theoretical and practical approach to the study of the law of wills. The formal requirements for a valid will are considered, as well as the circumstances where those requirements may be dispensed with by the Court, such as death bed or suicide notes which purport to pass property upon death.

The legislative framework for the law of succession in NSW is considered in detail, including the consequences of the failure to have made a will or where a Court determines that a will was invalid, for example where the will-maker (testator) was suffering from a dementing type illness at the time the will was made.

There is a particular focus upon the tensioning between the concept of freedom of testamentary disposition and the provisions of Chapter 3 of the Succession Act which permit certain classes of eligible person to make a claim to part of an estate even if cut out of a will by a displeased testator. This focus upon the themes of testamentary freedom, forced succession and familiar responsibility invite students to consider what is meant by 'family', including blended families and the status of adopted, IVE and surrogate children in the scheme of succession to property in NSW.
76521 Intellectual Property and Traditional Knowledge
6cp
Requisite(s): 70516 Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject considers the nature of traditional knowledge, how intellectual property in this area is protected under the Australian legal framework, and the development of strategies for its protection. The subject includes an overview of the international treaty framework, relevant Australian legislation and concerns for Australian Indigenous peoples such as appropriation of Indigenous arts and culture, language, spirituality, biodiversity, biotechnology, medicinal knowledge, film and music.

76703 Indigenous Peoples, the Environment and Property
6cp
Requisite(s): [70317 Real Property OR (70110 Introduction to Law AND 76006c Public International Law)]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject examines the relationship of Aboriginal and Torres Strait Islander customary rights and the development of Indigenous land rights. The subject examines developments in land rights legislation, the recognition of native title and legislative and common law developments in land rights and native title. Topics include the evidence of Aboriginal and Torres Strait Islander customs and traditional law; statutory recognition of aspects of customary law including traditional interests in land or items of cultural heritage, traditional hunting, fishing and gathering rights; issues as to the admissibility of evidence pertinent to the veracity of Aboriginal and Torres Strait Islander customs and traditional law; legal proceedings relating to Aboriginal land claims; assertion of common law title to land; legal proceedings relating to Aboriginal land claims, the effect of the decision of the High Court in Mabo v Queensland (No 2) 1992, the Native Title Act 1993 (Cwlth), amendments to the Native Title Act 1993 (Cwlth) and recent developments.

76801 Exchange Subject 1
6cp
Requisite(s): 70516 Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
International exchange offers students the option to complete part of their study in another country and receive credit towards their degree at UTS. UTS: Law participates in the UTS international exchange program that is administered by UTS: International Studies. Under the program, law students have the opportunity to undertake three or four law elective subjects at an exchange partner university. Applicants for exchange must have their study at the exchange partner university approved by UTS: Law’s exchange director. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Subjects of an international or comparative nature are preferred. Further information is available from:
www.uts.edu.au/international/exchange

Typical availability
Autumn semester, City campus

Note(s)
Enrolment in additional international exchange subjects requires enrolment in additional exchange subject numbers: 76801, 76803, 76804.

76802 Exchange Subject 2
6cp
Requisite(s): 70516 Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
International exchange offers students the option to complete part of their study in another country and receive credit towards their degree at UTS. UTS: Law participates in the UTS international exchange program that is administered by UTS: International Studies. Under the program, law students have the opportunity to undertake three or four law elective subjects at an exchange partner university. Applicants for exchange must have their study at the exchange partner university approved by UTS: Law’s exchange director. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.

Typical availability
Autumn semester, City campus

Note(s)
Enrolment in additional international exchange subjects requires enrolment in additional exchange subject numbers: 76802, 76803, 76804.

76803 Exchange Subject 3
6cp
Requisite(s): 70516 Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
International exchange offers students the option to complete part of their study in another country and receive credit towards their degree at UTS. UTS: Law participates in the UTS international exchange program that is administered by UTS: International Studies. Under the program, law students have the opportunity to undertake three or four law elective subjects at an exchange partner university. Applicants for exchange must have their study at the exchange partner university approved by UTS: Law’s exchange director. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Subjects of an international or comparative nature are preferred. Further information is available from:
www.uts.edu.au/international/exchange

Typical availability
Spring semester, City campus

Note(s)
Enrolment in additional international exchange subjects require enrolment in additional exchange subject numbers: 76801, 76802, 76804.

76804 Exchange Subject 4
6cp
Requisite(s): 70516 Equity and Trusts OR 70517 Equity and Trusts
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
International exchange offers students the option to complete part of their study in another country and receive credit towards their degree at UTS. UTS: Law participates in the UTS international exchange program that is administered by UTS: International Studies. Under the program, law students have the opportunity to undertake three or four law elective subjects at an exchange partner university. Applicants for exchange must have their study at the exchange partner university approved by UTS: Law’s exchange director. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format.
Students develop important skills in critical thinking and writing. 

Stolen Generations.

of recent times: the Holocaust, the death penalty, slavery and the 

about questions of justice related to central problems and traumas of recent times: the Holocaust, the death penalty, slavery and the 

Students developing important skills in critical thinking and writing as part of these investigations, and their own deep responses to the following questions. What is justice, and how do law and literature provide different answers to justice? What is the law’s relationship to violence? How does the law regulate the individual’s relationship to their community? How are moral questions addressed by the law? In what ways can it be said that literature judges the law, and what might we do with these judgments?

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. Emphasis is placed on currency in legal research and the application of appropriate research methodologies. Further information is available from:

Research officer

telephone +61 2 9514 3753

email law.research@uts.edu.au

fax +61 2 9514 3400

www.cisg.law.pace.edu/vis.html

76900 Moot

6cp; availability: by invitation only

Undergraduate and Postgraduate

UTS: Law offers students the opportunity to participate in a variety of moot competitions, both within Australia and overseas. Students enrol in this subject in cases where participation in a moooting team is counted as credit towards their degree. UTS: Law calls for expressions of interest from students to participate in a variety of moot competitions.

76901 Vis Arbitral Moot

6cp; availability: by invitation only

Undergraduate and Postgraduate

The Willem C Vis International Commercial Arbitration Moot is an international moot that takes place every April in Vienna. Named in honour of Professor Willem Vis, a world-recognised expert in international commercial transactions and dispute settlement procedures, this moot is an acknowledgment of the business community’s marked preference for resolving international commercial disputes by arbitration. This method of dispute resolution is offered as the clinical tool to train law students through two crucial phases: the writing of memorandums for claimant and respondent, and the hearing of oral argument based upon the memorandums. The forensic and written exercises require determining questions of contract - flowing from a transaction relating to the sale or purchase of goods under the United Nations Convention on Contracts for the International Sale of Goods and other uniform international commercial law - in the context of an arbitration of a dispute under specific arbitration rules. There are currently 79 law schools from 30 countries that send teams to Vienna. It is an excellent opportunity for students to learn an extremely valuable commercial skill, and a rare chance to meet and to form valuable professional friendships with a range of law students from around the world. Further information is available at:

www.cisg.law.pace.edu/vis.html

76902 Law and Literature

6cp

Requisites: 70120 Legal Method and Research AND 70115 Perspectives on Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject approaches important questions from jurisprudence, philosophy and legal theory through a consideration of law’s relationship to literature. Lectures relate key cases of the last hundred years to key works of literature, indicating ways in which we might think of the relationship between law and literature. Students engage in a rigorous process of reading and discussion that includes some of the most fascinating and thought provoking literary works of the last century, including works by Franz Kafka, Toni Morrison, Truman Capote and Harper Lee. Using these texts students will think about questions of justice related to central problems and traumas of recent times: the Holocaust, the death penalty, slavery and the Stolen Generations.

Students develop important skills in critical thinking and writing as part of these investigations, and their own deep responses to the following questions. What is justice, and how do law and literature provide different answers to justice? What is the law’s relationship to violence? How does the law regulate the individual’s relationship to their community? How are moral questions addressed by the law? In what ways can it be said that literature judges the law, and what might we do with these judgments?

76903 International Commercial Transactions

6cp

Requisites: 70327 Commercial Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides an overview of international business transactions and the framework for international regulation of commercial transactions. Furthermore, the subject provides an overview of international trade organisations (e.g., WTO, EU) and the uniform law applicable to international sale of goods (CSG).

Other key themes in the subject include aspects of the international regulation of trade in goods; WTO; an overview of licensing transactions and licensing into the EU; an overview of foreign direct investment and issues of investing in Europe.

The subject also provides an introduction to dispute resolution issues; and an overview of trans-boundary dispute resolution.

76904 Price International Media Law Moot

6cp

The Monroe E. Price International Media Law Moot aims to expand knowledge in international media law and policy.

Students will develop expertise in arguing a case before an international bench of judges from different legal systems and backgrounds.

Participants in the international rounds operate in a world where a Universal Court of Human Rights has been established to ensure the citizens of the United Nations are enjoying the rights enshrined in the Universal Declaration of Human Rights. In this world, the Universal Court of Human Rights substitutes all jurisdictions of all other regional courts and becomes the final adjudicator when all national remedies have been exhausted.

Students participating in the moot gain an understanding of issues of international human rights, US constitutional law and the law of various nations as they impact on freedom of speech, privacy and regulation of media content.

The international rounds are held at Oxford University and involve teams from law schools in Europe, Asia, the Middle East and the US.

UTS: Law calls for expressions of interest from students in July each year.

Typical availability

Autumn semester, City campus

Spring semester, City campus

77688 Doctoral Dissertation (SJD)

0cp

Postgraduate

This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. Emphasis is placed on currency in legal research and the application of appropriate research methodologies. Further information is available from:

Faculty research officer

telephone +61 2 9514 3753

fax +61 2 9514 3400

email law.research@uts.edu.au

www.law.uts.edu.au

77696 PhD Thesis: Law

0cp

This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. It explores the traditional boundaries of legal research within the development and application of empirical methodologies. Emphasis is placed upon currency in legal research, the application of quantitative and qualitative methodologies to legal research and refining research skills in interdisciplinary areas with application to legal research. Further information is available from:

Research officer

telephone +61 2 9514 3753

fax +61 2 9514 3400

email law.research@uts.edu.au

www.law.uts.edu.au
77697 Higher Degree Research Seminar
6cp
This subject is designed to prepare higher degree research students in law for undertaking and writing a research thesis. Through a series of seminars and workshops, students are provided with a thorough grounding in the components of an effective research strategy and positioned to produce a written research proposal directed towards preparation for their Candidature Assessment at the end of stage one.

77698 Thesis (Law)
0cp
This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. Emphasis is placed on currency in legal research and the application of appropriate research methodologies. Further information is available from:
Faculty research officer
telephone +61 2 9514 3753
fax +61 2 9514 3400
e-mail law.research@uts.edu.au
www.law.uts.edu.au

77701 International Economic Law (PG)
6cp
Requisite(s): [70115 Perspectives on Law AND 70120 Legal Method and Research OR 77885c Legal Process and Legal Research OR 60 credit points of completed study in CO4148 Master of Law and Legal Practice]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
Increasing globalisation of commercial and social engagements is creating a greater need for lawyers to understand the nature and extent of global legal regulation and, in the commercial context, the operation of various domestic and transnational laws in relation to international trade. This subject is designed to help students develop an understanding of the law governing the international economy and relations between participants in that economy. The concept of international economic law is examined. Topics include specific resource issues such as the common heritage; international legal regulation of investment, finance and trade; relevant institutions such as the International Monetary Fund, the World Trade Organization; and the relationship between national and international economic law involving such concepts as extraterritoriality and sovereign immunity.

77704 European Union Law
6cp
Requisite(s): [70616c Australian Constitutional Law OR 77885c Legal Process and Legal Research OR 70110 Introduction to Law AND 76006c Public International Law]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject deals with the laws and institutions of this supra-rational organisation. Topics discussed include the activities of the European institutions; the political and economic origins of the EU and its institutional structures (with emphasis on the European Court of Justice); the interrelationship between community law and the law of the member states; and the free movement of goods, workers, capital and services.
The subject concentrates on the emerging transnational protection of social and economic rights and the jurisprudence of the European Court of Justice.

77715 Banking Law
6cp
Requisite(s): [(70327c Commercial Law OR 70318c Personal Property) OR 77885c Legal Process and Legal Research OR 70115 Perspectives on Law AND 70120 Legal Method and Research]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject concentrates on relations between banking institutions and their customers. Additional topics examined are drawn from the following: the regulatory framework within which banking institutions operate and the activities of banking institutions including cheques, bills of exchange, foreign currency transactions and secured and unsecured lending.

77716 International Trade Law
6cp
Requisite(s): 70616c Australian Constitutional Law OR 77885c Legal Process and Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The rules of the World Trade Organization (WTO) underpin the conduct of international trade in about 150 countries and have direct relevance for governments, businesses and individuals. This subject covers a brief introduction of the WTO followed by a more detailed analysis of private international trade transactions.
The subject primarily focuses on the Australian application of trade rules and domestic and international laws governing international transactions.
On completion of this subject, students have developed an understanding of the basic legal principles underpinning the multilateral trading system and an understanding of the application of the law to international transactions.

Typical availability
Autumn semester, City campus
Spring semester, City campus

77724 International Banking and Finance Law
6cp
Requisite(s): [(70120 Legal Method and Research AND 70115 Perspectives on Law) OR 77885c Legal Process and Legal Research OR 60 credit points of completed study in CO4148 Master of Law and Legal Practice]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is important for students wishing to understand the transnational nature of corporate finance and regulation, and the central place of banks and other financial intermediaries in the globalisation of commerce. The subject is an advanced study of types of cross-border finance, regulation of banking between countries and regions, foreign exchange and derivative markets, and international financial and banking policy. Case studies cover the US, European Union, East Asia and emerging markets, with a focus on whether globalisation of banking and finance has beneficial or detrimental social consequences and whether convergence to a single international financial system is desirable or even possible.
Topics covered in the subject include:
• international banking / finance systems
• US securities / banking markets: international aspects
• the Bank for International Settlements, Basel Accord and capital adequacy
• East Asia: Japanese and Chinese banking / capital markets
• risk control: foreign exchange, hedging, derivatives, operational risk
• emerging markets and the debt crisis
• privatisation and the IMF/World Bank
• Europe: Monetary Union and securities/banking markets
• convergence and the globalisation of banking and finance.

This is a semi-intensive subject offered on four Saturdays during the semester.

777251 Research Project 1 (PG)
6cp; availability: must be completed by Master of Legal Studies, Master of International Law, Master of Dispute Resolution, Master of Law and Legal Practice; candidates should have completed at least 24 credit points (60 credit points for Master of Law and Legal Practice) and maintained an average grade of 75 per cent or greater, and Master of Laws (only for LLM students enrolled in 2007 and prior).

Requisites: 60 credit points of completed study in CO4148 Master of Law and Legal Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

Candidates must research and write a paper of approximately 12,000-15,000 words at a standard suitable for publication on a topic approved by UTS: Law. In most cases, the research project extends and develops research done in one or more of the elective subjects already undertaken, but in appropriate circumstances a candidate may undertake a new topic. Students are not permitted to enrol in the research project until written approval has been obtained from the subject coordinator.

The research project is completed over two consecutive semesters. Candidates enrol in this subject in the first semester of enrolment and 777252 Research Project 2 in the following semester. A final grade is not recorded against this subject until completion of 777252 Research Project 2.

777252 Research Project 2
6cp; availability: must be completed by Master of Legal Studies, Master of International Law, Master of Dispute Resolution, Master of Law and Legal Practice; candidates should have completed at least 24 credit points (60 credit points for Master of Law and Legal Practice) and maintained an average grade of 75 per cent or greater, and Master of Laws (only for LLM students enrolled in 2007 and prior).

Requisites: 60 credit points of completed study in CO4148 Master of Law and Legal Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Recommended studies: 777251 Research Project 1 (PG)

Candidates must research and write a paper of approximately 12,000-15,000 words at a standard suitable for publication on a topic approved by UTS: Law. In most cases, the research project extends and develops research done in one or more of the elective subjects already undertaken, but in appropriate circumstances a candidate may undertake a new topic. Students are not permitted to enrol in the research project until written approval has been obtained from the subject coordinator.

The research project is completed over two consecutive semesters. Candidates enrol in 777251 Research Project 1 (PG) in the first semester of enrolment and this subject in the following semester. A final grade is not recorded against 777251 Research Project 1 (PG) until completion of this subject.

77734 Law and Medicine
6cp
Postgraduate

This subject deals with the aspects of law relevant to health care. There are many issues that can arise as health law is an ever evolving and diverse area. It is subject to both local and overseas influences and regulation and regulation is challenging. When studying health law, many areas must be considered, such as: human rights, ethical practice, the advancement of medical technology, social policy, governance and the many vested interests. The subject examines the issues that confront health-care professionals and their patients and peers, in particular in the context of continuing systemic and resource problems. This includes the handling of complaints against health-care practitioners, the regulation of the various health professions, the outcome of parliamentary inquiries and the history and findings of the various royal commissions. Other important areas such as medical negligence, consent to treatment, access to and ownership of medical records, privacy and confidentiality, euthanasia, wrongful birth, wrongful life and abortion, complementary and alternative medicine, organ donation, public health law issues such as tobacco, alcohol and obesity are examined and discussed.

77740 Research Paper
6cp; availability: Master of Laws, Master of Law and Legal Practice, Master of International Law, Master of Industrial Property, Master of Dispute Resolution, Master of Legal Studies, Graduate Diploma in Legal Studies, Graduate Certificate in International Law, Graduate Certificate in Dispute Resolution; candidates should have completed at least 24 credit points (60 credit points for Master of Law and Legal Practice) and maintained an average grade of at least 65 per cent

Requisites: 60 credit points of completed study in CO4148 Master of Law and Legal Practice OR 77996 Legal Process and Intellectual Property Overview OR 77905 Preparing for Intellectual Property Practice OR 70717 Evidence and Criminal Procedure

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Candidates must research and write a paper of approximately 8000-12,000 words at a standard suitable for publication on a topic approved by UTS: Law. In most cases, the research paper extends and develops research done in one or more of the elective subjects already undertaken, but in appropriate circumstances a candidate may undertake a new topic. Students are not permitted to enrol in the research paper until written approval has been obtained from the subject coordinator. The application form and written proposal must be submitted by the Friday of week 12 of the preceding semester. Thus for students undertaking the paper in the Autumn semester, this is towards the end of October of the preceding year. For students undertaking the paper in the Spring semester, this is towards the end of May of that same year. Further information about the application procedure and proposal is available from: www.law.uts.edu.au/research/coursework

Note(s)
This research paper may be used toward partial fulfilment of the award of honours for Juris Doctor (CO4256) (see page 534) students only.

77745 Negotiation
6cp

Requisites: 60 credit points of completed study in CO4148 Master of Law and Legal Practice AND 77971c Dispute Resolution

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject is taught in a four-day intensive block which is designed to provide an understanding of the theory and skills of negotiation. It covers the diverse approaches to negotiation, with a focus on principled negotiation as taught by the Harvard Law Faculty’s Negotiation Project. This subject brings together the current theories and practice in negotiation skills and analysis with an emphasis on identifying effective negotiation strategies.

This subject covers topic areas that include:
- distributive and integrative bargaining
- principled negotiation theory and practice
- pre-negotiation analysis, preparation and participation
- the challenges of complex negotiations including agency and team issues, negotiating behaviour and communication issues
- coalition dynamics
- risk assessment
- trust and good faith issues.

The assessment is centred on the opportunity to workshop and evaluate a chosen scenario developed in conjunction with a supporting critique of selected negotiation theories.
77746 Advanced Mediation

6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 79771 Dispute Resolution (PG) AND 78029 Mediation Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject builds on the introductory theory and practice presented in the prerequisite subjects and draws on the expertise of experienced mediators. It concentrates on the micro-skills of mediation at an advanced level. And is designed to provide an in-depth understanding of skills, strategies and techniques used by experienced mediators and to explore a range of major mediation models. Topics included for study are:

• micro-skills of mediation at an advanced level
• the skills and techniques used by experienced mediators
• a range of mediation models including co-mediation and the 'Understanding' model developed by Harvard Law School and the New York Centre for Mediation in Law
• the practice of narrative mediation and the concepts of externalising, deconstructing and careful listening

The practice of forgiveness as a strategy in a mediation context.

The subject is taught in a three-day intensive mode with opportunities in selected exercises to develop reflective practice and understand the application of theory to mediation practice. Assessment includes a paper based on critiquing the theories and concepts explored in the course, a case study and a reflective journal.

77751 International Commercial Arbitration

6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 79771 Dispute Resolution

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject covers commercial arbitration in the international arena in-depth and includes the following topics:

• ad hoc arbitrations
• relevant legislation and international conventions
• international institutional arbitration associations
• scope, formal requirements and validity of agreements to arbitrate
• drafting in relation to ICSID arbitrations
• curial intervention
• compulsory reference of an international commercial dispute to arbitration in Australia
• award of damages in international arbitration
• sovereign immunity
• international standard construction contracts
• power of the international arbitral tribunal to deal with defaults, delaying tactics or refusal of a member to participate in the making of an award
• provisions for correcting an international commercial arbitration award
• recourse against award under the UNCITRAL model law
• recognition and enforcement of foreign arbitral award under the UNCITRAL model law and the New York Convention
• liability of the arbitrator for negligence and/or wilful neglect of duty.

77772 Commercial Arbitration (Domestic)

6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 79771 Dispute Resolution

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

Topics covered in this subject include the arbitration agreement and its scope; the arbitrator's jurisdiction; reference by the court to a referee or arbitrator; the inherent jurisdiction of the court to interfere in arbitral proceedings; agreement binding on the Crown; the appointment of arbitrators and other related matters; the umpire entering upon the reference; the distinction between an arbitration certificate, valuation, assessment, an exception clause, reference to arbitrator, or quasi-arbitrator; powers and duties of the Arbitration Tribunal; subpoenas; evidence; legal representation; amiable compositeur or ex aequo et bono; interim awards; specific performance; extension of amicility of arbitration proceedings; duties of parties; right of appeal; exclusion agreements; misconduct; remission of award; removal of umpire or arbitrator; sundry provisions; Scott v Avery clause; and foreign awards.

77760 Family Dispute Resolution

6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 79771c Dispute Resolution (PG)

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject provides instruction in the theoretical and practical aspects of the use of non-adversarial techniques for resolving family disputes. Different approaches and skills are presented together with a critical evaluation of the use of such techniques. Less adversarial approaches to trials relating to disputes over children and the impact of new legislation is considered in the context of the new family law framework. The subject covers such topics as:

• the nature of family disputes
• the legal system and the new family law framework for the resolution of family disputes
• the less adversarial approach to trials in the Family Court of Australia
• dispute resolution processes in relation to financial aspects of family disputes
• children's issues in family disputes
• the effects of domestic violence and the power dynamic in family disputes
• ethical issues in conducting family dispute resolution processes
• developments in dispute resolution practice including collaborative law practice and compulsory community based services.

Students are introduced to the legal, psychological and social aspects of family disputes through formal information giving and also through experiential teaching techniques. They are expected to research in the area to further their understanding of this complex and challenging area of law and social policy. Students may choose their area of research for a written paper and seminar presentation.

Note(s)

This subject was formerly called Interpersonal Conflict Resolution.

77761 Dispute Resolution in Commerce

6cp
Requisite(s): 79771c Dispute Resolution (PG) AND 60 credit points of completed study in C04148 Master of Law and Legal Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject provides an overview of dispute management and complaints handling systems, together with further consideration of the developing body of dispute resolution and negotiation theory and practice in the commercial context.

There is an increasing demand for the development of dispute resolution systems that avoid an adversarial approach in commercial environments where delay, high legal costs and limited possible outcomes are being perceived as counterproductive in the highly competitive commercial environment. Increasingly there have been legislative responses for providing both processes and process providers for resolving and settling commercial disputes. These developments are also studied in the context of changing corporate structures and cultures and the demands for effective, accessible, cost efficient and ethical methods for dealing with commercial disputes.

912

Access conditions are available in the individual subject descriptions in the online handbook.
The topics included in this subject are:

- negotiation in critical incidents such as crisis management with hard-bargainers and 'dirty tricks'.
- The use of students' skills in negotiating crisis situations and in dealing with an aggressive person.
- The stages of crisis negotiations, the preparation and the planning.
- Team approach and use of communication techniques.
- Dealing with an aggressive person.
- Choosing the right negotiator.
- Briefing and debriefing a critical incident.
- Strategic planning.

This subject provides a theoretical overview of, and instruction in, international commercial arbitration, statutory regulation of international arbitration, international arbitration law, UNCITRAL initiatives and analysing arbitration agreements, transnational aspects of arbitration, international arbitration in Australia, enforcement of arbitral awards, international commercial litigation, enforcement of international commercial judgments and institutions for international commercial dispute resolution.

**77792 Crisis Negotiation**

- **6cp**
- **Requisite(s):** 79771c Dispute Resolution (PG) AND 60 credit points of completed study in C04148 Master of Law and Legal Practice
- **Postgraduate**
- This subject covers negotiation in international commercial disputes, cross-cultural commercial negotiations, negotiating with Japan and a Middle-Eastern country, the role of dispute resolution centres, international commercial mediation, arbitration as contract, drafting and analysing arbitration agreements, transnational aspects of arbitration, international arbitration law, UNCITRAL initiatives on international commercial arbitration, statutory regulation of international commercial arbitration in Australia, enforcement of arbitral awards, international commercial litigation, enforcement of international commercial judgments and institutions for international commercial dispute resolution.

**77794 International Environmental Law**

- **6cp**
- **Requisite(s):** 70110 Introduction to Law AND 76006c Public International Law OR 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 70616 Australian Constitutional Law OR 77885 Legal Process and Legal Research
- **Postgraduate**
- This subject introduces students to international law relating to conservation and management of the environment. Particular areas that may be considered include the precautionary principle, sustainable development, marine pollution, climate change, conservation of biological diversity, marine pollution, trade in hazardous substances, climate change, conservation and biological diversity, protection of world heritage. The impact of international environmental law on domestic legal systems is also considered, including questions of domestic incorporation of principles of international and civil law.

**77796 Taxation of Business Entities**

- **6cp**
- **Requisite(s):** 60 credit points of completed study in C04148 Master of Law and Legal Practice
- **Postgraduate**
- This subject covers negotiation in international commercial disputes, cross-cultural commercial negotiations, negotiating with Japan and a Middle-Eastern country, the role of dispute resolution centres, international commercial mediation, arbitration as contract, drafting and analysing arbitration agreements, transnational aspects of arbitration, international arbitration law, UNCITRAL initiatives on international commercial arbitration, statutory regulation of international commercial arbitration in Australia, enforcement of arbitral awards, international commercial litigation, enforcement of international commercial judgments and institutions for international commercial dispute resolution.
During the full-day sessions each psychological concept is explored using the following format:

- theory: past and current
- research: evidence for and against the theory
- application of the concept to dispute resolution
- practice: exercises, homework, role-play
- discussion: as a student/practitioner how can I apply this?; what is its value?; what have I learnt?
- future directions:
  - how is the concept evolving?; what are the implications for the practice of dispute resolution?
  - as a student/practitioner: where do I go from here?; what action can I take?

77867 Workplace Dispute Resolution
6cp
Requisite(s): 77771c Dispute Resolution AND 60 credit points of completed study in C04148 Master of Law and Legal Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject explores the applications of dispute resolution theory and practical skills in the workplace. It explores the causes of conflict within the workplace setting and some legislative requirements for dealing with workplace disputes. The relevance of a range of dispute resolution processes and the possible challenges to their implementation are explored. Impediments to changing the dispute resolution culture in the workplace are identified and dispute resolution models and the design of systems for implementation in both the private and public sectors are studied. The subject covers the following topics:

- analysis of workplace conflict and its sources
- the legal, political and historical contexts within which workplace conflict has been managed and how it is changing
- the existing dispute resolution cultures in Australian workplaces
- the types of disputes within the workplace, including grievances and management disputes, and the dispute resolution processes that are applicable
- the theory of the role of dispute resolution processes in effecting behavioural change in the workplace
- the theory shaping mediation techniques for resolving workplace disputes
- designing, implementing and evaluating a dispute resolution system for a workplace
- the relationship between organisational change and dispute resolution processes
- the difference in managing disputes in the public and private sectors
- the negotiation dynamic of enterprise and employment contract bargaining.

77885 Legal Process and Legal Research
6cp; online and on-campus components

Postgraduate

In this subject students are introduced to the common law and its place in the Australian legal environment. The skills of legal research, case analysis, statutory interpretation, legal problem solving and critical analysis—which are essential to the study and practice of the law—are also developed in the course of students’ learning.

Students begin their inquiry by considering primary and secondary sources of the common law, the development of common law, courts and lawyers, and the spread and reception of common law. They then examine contract law in the common law, public law and the common law, and business transactions in the common law.

77889 Trade Marks Law
6cp; offered either by distance, requiring no attendance, or on-campus

Requisite(s): 77886c Legal Process and Intellectual Property OR (70115 Perspectives on Law AND 70120 Legal Method and Research) OR 60 credit points of completed study in C04148 Master of Law and Legal Practice OR 77905c Preparing for Intellectual Property Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject provides an understanding of the principles of trade marks and the trade mark system in Australia. Topics covered include passing off and unfair competition, registrability issues, comparison of trade marks and assessment of deceptive similarity, ownership and authorship of trade marks, requirements of use in relation to trade marks, grounds of opposition, and infringement and post-registration maintenance of trade marks.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77890 Trade Marks Practice
6cp; offered by distance requiring no on-campus attendance

Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 77889c Trade Marks Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject concentrates on the ability to advise and to handle the interests of a client in prosecution and maintenance of trademark applications, including advice on the desirability of seeking trademark protection and provision of alternative protection in Australia and other countries. Topics covered include classification systems, searching, types of application and registration, Trademark Office practice and procedure, removal for non-use, rectification, registration of security interests, border controls, exploitation, misuse and criminal sanctions, and international issues.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77891 Patent Systems
6cp; offered by distance requiring no on-campus attendance

Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 77886c Patent Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject concentrates on the ability to handle the interests of a client in prosecution and maintenance of a patent application, including advice on the desirability of seeking patent protection and provision of alternative protection in Australia and other countries. Topics covered include: types of application; Patent Office practice; amendment; opposition; re-examination; maintenance; extension of term; extension of time; revocation; treaties and conventions; searching; assignment; licensing; compulsory licenses; Crown use; restrictions on exploitation; circuit layout legislation and practice; plant protection legislation and practice; patentability in other countries (particularly with reference to New Zealand, the United States, the European Union, the People’s Republic of China and Japan); and innovation patents.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney in Australia.
77892 Professional Conduct (Intellectual Property)
6cp; offered wholly online, requiring no on-campus attendance
Requisites: 77896c Legal Process and Intellectual Property
Overview
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77893 Designs Law and Practice
6cp; offered wholly online requiring no on-campus attendance
Requisites: [77885c Legal Process and Legal Research OR (70115 Perspectives on Law AND 70120 Legal Method and Research) OR 77896c Legal Process and Intellectual Property Overview OR 60 credit points of completed study in C04148 Master of Law and Legal Practice OR 77905c Preparing for Intellectual Property Practice]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject concentrates on the ability to advise and to handle the interests of a client in prosecution and maintenance of a design application, including advice on the desirability of seeking design protection and provision of alternative protection in Australia and overseas. Topics covered include registrability, newness, registration procedure, maintenance, office practice, third-party objection, infringement, expunction, copyright, and international aspects of design practice.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77894 Drafting of Patent Specifications
6cp; offered wholly online requiring no on-campus attendance
Requisites: 77898 Patent Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
On completion of this subject, students have acquired an ability to express an understanding of a patent specification and what it covers and principles of statutory interpretation.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77895 Interpretation and Validity of Patent Specifications
6cp; offered either wholly online requiring no on-campus attendance, or on-campus
Requisites: 77898 Patent Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
On completion of this subject, students have acquired an ability to express an understanding of a patent specification and what it covers for the purpose of advising on infringement validity over given prior art, s 40 of the Patents Act 1990 and other grounds of revocation and amendment.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney in Australia.

77896 Legal Process and Intellectual Property Overview
6cp; offered wholly online and requires no on-campus attendance
Postgraduate
This introductory subject provides non-law graduates with an understanding of the Australian legal system and how intellectual property rights may be protected.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney or Trade Mark Attorney in Australia.

77898 Patent Law
6cp; offered wholly online and requires no on-campus attendance
Requisites: [77885c Legal Process and Legal Research OR (70115 Perspectives on Law AND 70120 Legal Method and Research) OR 77896c Legal Process and Intellectual Property Overview OR 60 credit points of completed study in C04148 Master of Law and Legal Practice OR 77905c Preparing for Intellectual Property Practice]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an understanding of the principles of patents and the patent system in Australia. Topics covered include subject matter, s 40 of the Patents Act 1990 (specifications), infringement, inventorship, ownership and breach of confidence.

Note(s)
This subject is accredited by the Professional Standards Board as fulfilling part of the qualifications for registration as a Patent Attorney in Australia.

77900 Goods and Services Tax
6cp
Requisites: [60 credit points of completed study in C04148 Master of Law and Legal Practice AND (70516 Equity and Trusts OR 70517 Equity and Trusts)]
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate and Postgraduate
The course canvasses some basic principles and associated legal issues and issues relating to matters such as administration, liability, supply, taxable supply, GST-free supplies, input tax credits, bad debts, anti-avoidance and comparable jurisdictions.
77901 Securities Markets Law
6cp
Requisite(s): 70417 Corporate Law OR 77885 Legal Process and Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject builds on the compulsory company law subject by examining key issues in the Australian scheme for the regulation of markets for corporate securities. Topics include an introduction to corporate finance, regulation of major equity and debt capital transactions such as reductions, buy-backs and the raising of new capital through equity and debt issues. The subject has a particular focus on the role of disclosure in securities market regulation, including the regulation of continuous disclosure, misleading statements to the market and insider trading. The subject also provides an introduction to takeover regulation with an emphasis on the role of disclosure in takeovers and the regulation of takeover disputes.

77903 Copyright Law
6cp
Requisite(s): 77885c Legal Process and Legal Research OR (70115 Perspectives on Law AND 70120 Legal Method and Research) OR 60 credit points of completed study in C04148 Master of Law and Legal Practice OR 77896c Legal Process and Intellectual Property Overview OR 77905c Preparing for Intellectual Property Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers the principles of copyright, the development of case law and the structure and ambit of the legislation. Students are required to develop a good working knowledge of the Copyright Act 1968 (as amended), and associated regulations, and to have a sound knowledge of relevant case law.

77905 Preparing for Intellectual Property Practice
6cp
This subject provides students with an understanding of the:
- Australian legal system, courts and legislative processes
- protection of intellectual property rights by Australian and international legal systems
- principles involved in efficient and effective management, commercialisation and exploitation of intellectual property assets
- legal entities and processes used in licensing, franchising, assignment and securing intellectual property rights, and
- the rights, privileges and responsibilities of practising patent or trade marks attorneys towards their clients, the profession and the community.
When completed, this subject ensures that students satisfy the knowledge requirements prescribed by Regulation 20.8 and Parts 2 and 3 of Schedule 5 of the Patent Regulations 1991 (Cwlth).

77924 Superannuation and Retirement Planning
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject concentrates on the taxation aspects of superannuation at the contribution stage, while superannuation money is held in a fund, and when benefits are paid. The subject deals with related topics such as the regulatory requirements of the Superannuation Industry (Supervision) Act 1993, the superannuation guarantee scheme and the interaction of GST and superannuation.

Note(s)
Students who have completed 77979 Retirement Planning (PC) are not permitted to enrol in this subject. This subject was formerly named Superannuation Law.

77930 Insurance Law
6cp
Postgraduate
This subject looks at insurance from the perspective of a business buying insurance. It begins with risk management and, in the context of the function of insurance in risk management, considers the design of an insurance program and how business buys and sells insurance. The subject looks at the public regulatory regime governing the insurance industry, including products and markets. The approach examines in some detail the private law principles governing the relationship between insurer and insured in particular, the pre-contract matters of disclosure, terms on the risk and claims, and the structure and documentation of a typical policy. There is a focus on the main insurance principles: duty of utmost good faith, insurable interest, indemnity, subrogation, risk, non-disclosure, misrepresented and cancellation of cover. There also is material on the resolution of insurance disputes. The role of intermediaries, such as agents and brokers, is also examined. The subject concludes with case studies on the insurance market in crisis.

77935 International Business Law
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines aspects of the legal environment of the conduct of business abroad, including: international anti-corruption laws and policies; international economic institutions; Australia and its major trading partners; aspects of the anti-trust legislation and incentives to export; fiscal aspects of trade; the protection of Australian industry; foreign direct investment law, policy and risk management; and the transnational corporation, including cross-border insolvency issues and international corporate social responsibility.

77938 Introduction to Taxation Law
6cp
Postgraduate
This subject acquaints students with Australian taxation law in a practical business environment. The focus of the syllabus is on the application of tax law concepts in a professional accounting setting. It aims to develop students' conceptual and analytical skills and an appreciation of the Australian tax system. It provides a general analysis of the current tax system and consideration of the many changes it is presently undergoing with an emphasis on the implications for the commercial world. The subject looks at the Income Tax Assessment Act, the Tax Law Reform Project and the New Tax System. Particular concepts to be considered include: taxable income, income, deductions, capital gains tax, trusts, partnerships, companies and shareholders, tax accounting, tax planning and anti-avoidance provisions, fringe benefits tax and goods and services tax.

77942 Legal Aspects of Contracts Administration
6cp
Postgraduate
This subject aims to provide students with an understanding of legal issues that arise when negotiating complex contracts, as well as the difficulties that can occur once such contracts are entered.

77945 Current Issues in Taxation
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is concerned with taxation practice. It is not intended to be prescriptive, and variations will be made by the lecturer to cater for the interests of students and to take account of current developments in revenue law. Topics covered include: recent amendments and case law; fundamentals of tax planning; advanced problems; partnerships; trusts; taxation and stamp duty problems in estate management; company distributions, losses, superannuation and employee benefits;
Students develop an understanding of the basic legal principles underlying the multilateral trading system, namely the General Agreement on Tariffs and Trade, General Agreement on Trade in Services and the Agreement on Trade-related Aspects of Intellectual Property Rights; the dispute settlement mechanism of the WTO; and the institutional structure and the decision-making process of the WTO.

**Note(s)**
LLB students require a minimum weighted average mark (WAM) of 65 per cent to undertake this subject (this requirement may be reviewed in future). If a student enrols with a WAM of less than 65 per cent they will be withdrawn from the subject after the last date to add subjects and consequently will not be able to enrol in an alternative subject in that semester.

### 77980 Estate Planning and Trusts

6cp
Postgraduate
This subject gives an introduction to the law of wills and estates and explores the efficient utilisation of same to achieve beneficial estate planning. Presently, succession law in Australia varies on a state by state basis – this poses additional challenges for those working with all but the simplest testamentary dispositions.

### 78008 Law of the Sea

6cp
Requisites: [77885c Legal Process and Legal Research OR (70616 Australian Constitutional Law AND 60 credit points of completed study in C04148 Master of Law and Legal Practice) OR (70110 Introduction to Law AND 76006c Public International Law)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate
The Law of the Sea (LOS) is one of the most diverse and interesting areas of international law. This subjects examines in detail not only the status of the LOS today, but also its history and development which can be traced back to around 1650 and which has traditionally reflected shipping and navigation interests. The LOS has today been codified and is contained in the 1982 United Nations Convention on the Law of the Sea (UNCLOS), a treaty that clearly represents one of the greatest achievements of international law making. The UNCLOS now contains many additional and dynamic areas of international law such as delineation of various maritime boundaries, including those for archipelagic states; pollution from various sources of marine pollution including land-based sources; exploitation of valuable resources such as high seas fisheries, the minerals of the continental shelf beyond national jurisdiction and of the deep seabed; marine scientific research; as well as dispute resolution.

### 78010 International Criminal Law

6cp
Requisites: [70120 Legal Method and Research AND 70115 Perspectives on Law] OR [77885c Legal Process and Legal Research OR (70616 Australian Constitutional Law AND 60 credit points of completed study in C04148 Master of Law and Legal Practice)]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
This subject examines international criminal law from both theoretical and practical perspectives. The subject commences by dealing with the framework of international law and its ability to try the crimes of aggression, war crimes, crimes against humanity, genocide, torture and terrorism. It then examines the theoretical bases for the establishment of international criminal court and tribunals including the permanent International Criminal Court and the crimes that can be prosecuted before the Court. The subject also deals with principles of criminal culpability in international criminal law, as well as possible defences, and judicial procedures to be applied.
78011 International Sale of Goods
6cp
Requisite(s): 70120 Legal Method and Research AND 70115 Perspectives on Law OR 77885 Legal Process and Legal Research OR 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 70318 Personal Property OR 70327 Commercial Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject examines certain practical, theoretical and methodological issues concerning the proper interpretation of the provisions of the UN Convention on Contracts for the International Sale of Goods 1980 (CISG). The CISG is the uniform sales law of countries that account for two-thirds of total world trade. However, the enactment of a uniform law text carries no guarantee of its subsequent uniform application in practice. This subject provides a comparative analysis of the main provisions of the CISG and the UNIDROIT Principles of International Commercial Contracts 1994 and the Principles of European Contract Law 1998, in order to determine whether consideration of such general principles of international commercial law could aid in the proper interpretation and application of the CISG as uniform international sales law - a positive step towards substantive legal uniformity.

78013 Refugee Law and Practice
6cp
Requisite(s): 70616c Australian Constitutional Law AND 70617c Administrative Law

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject surveys contemporary legal issues in refugee protection both within Australia and internationally. Focusing initially on the 1951 Convention Relating to the Status of Refugees and the 1967 Protocol, this subject explores the key controversial issues in interpreting the refugee definition and extent of international protection afforded to refugees. In reviewing exclusion mechanisms in the international context, we consider the impact of terrorism on asylum procedures and eligibility, as well as issues involved in processing child soldiers. This international law background provides a framework for considering the implementation of the Refugee Convention in Australian domestic law. We proceed from an overview of the Commonwealth Migration Act 1958, focusing particularly on the procedures for decision-making in Australian refugee law, including merits review before the RRT and judicial review of administrative decisions. In this context, time is spent considering special issues which arise in working with refugee clients. Specific case studies in the domestic context include the detention and offshore interception of asylum seekers, as well as the overlap between refugee law and Australian responses to trafficking in persons. The subject concludes by considering proposals to reformulate the international refugee protection regime.

78015 Global Aspects of Intellectual Property Law
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice OR 77896 Legal Process and Intellectual Property Overview OR [70115 Perspectives on Law AND 70120 Legal Method and Research] OR 77885 Legal Process and Legal Research OR 77905 Preparing for Intellectual Property Practice

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

This subject considers the international framework of intellectual property law. Topics covered include the international institutions dealing with intellectual property (the World Trade Organization, World Intellectual Property Organization, International Union for the Protection of New Varieties of Plants and the United Nations), particularly considering their treaties and dispute mechanisms; bilateralism and the future of multilateralism in international intellectual property including the Australia-US Free Trade Agreement; and emerging issues likely to affect international intellectual property over the coming years - health and access to pharmaceuticals, access to and protection of genetic resources and biodiversity, protection of traditional knowledge, the possibility of harmonisation and the digital agenda.

78016 International Humanitarian Law
6cp
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research OR 77885c Legal Process and Legal Research OR 60 credit points of completed study in C04148 Master of Law and Legal Practice OR [70110 Introduction to Law AND 7600c Public International Law]

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Undergraduate and Postgraduate

This subject examines all the major areas of international humanitarian law. It covers the traditional topics of the laws of armed conflict and the laws in war, in addition to considering more recently emerged fields such as refugee law, peacekeeping operations and international crimes. The subject aims to situate each of these areas within the historical, philosophical and political contexts in which they have, and continue to be, developed. Moreover, there is an emphasis on the analysis of international humanitarian law through issues that have arisen by virtue of recent events, such as the proliferation of internal conflicts and the reaction to international terrorism.

78021 Contemporary Issues in Constitutional Law
6cp; mixed mode, including field trips to the High Court, guest lectures from practitioners and judicial officers and opportunities for students to negotiate assessment tasks with the lecturer

Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice AND 70616c Australian Constitutional Law

These requisites may not apply to students in certain courses. See access conditions.

Undergraduate and Postgraduate

This subject focuses on how constitutional law is made, commencing with consideration of the practical dimensions of access to constitutional justice, followed by a detailed consideration of the jurisdictional and procedural pathways to the High Court, and the reconsideration of contemporary trends in judicial law-making. The subject has a practical aspect, focusing on recent decisions of the High Court and what these decisions tell us about constitutional law-making, and a theoretical aspect, as the subject attempts to connect these decisions and the dynamics of their development to broader themes in comparative constitutional jurisprudence.

Note(s)

LLB students require a minimum weighted average mark (WAM) of 65 percent to undertake this subject (this requirement may be reviewed in future). If a student enrols with a WAM of less than 65 per cent they will be withdrawn from the subject after the last date to add subjects and consequently will not be able to enrol in an alternative subject in that semester.

78023 International Trade Law and the Environment
6cp; distance

Requisite(s): [70115 Perspectives on Law AND 70120 Legal Method and Research] OR 77885 Legal Process and Legal Research OR 60 credit points of completed study in C04148 Master of Law and Legal Practice

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

The trade and environment debate conceals the problematic relationship between two legitimate interests of the international community. This subject introduces students to the significant interface between international trade liberalisation and the environmental imperative of ecologically sustainable development. Initially the subject provides an overview of the frameworks of international trade law and environmental law and an insight into the philosophical underpinnings of both institutions. The subject considers the important role of developing countries in shaping the trade/environment debate.

The subject considers the obligations imposed by the World Trade Organization (WTO) including the Agreements on Food Safety Standards, Technical Barriers to Trade and the Agreement on Trade Related Aspects of Intellectual Property Rights (TRIPS). The scope
and operation of environmental exceptions that have been the subject of recent trade environment disputes in the WTO provide valuable insights into the area. The position of multilateral environmental agreements and the WTO is considered along with the serious implications for developing countries. Particular specialty areas of concern are covered including ecolabelling, invasive species and intellectual property issues.

Upon completion of this subject students should be able to understand and analyse the current relationship between trade and environment, reflect in an informed manner on the future of the protection of the environment in the multilateral trade and investment regime and be able to critically assess the prospects for future harmonisation of global free trade regimes and ESD principles.

78025 Intellectual Property: Law and Policy
6cp
Requisite(s): 70120 Legal Method and Research OR 70105 Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject provides an introduction and overview of the legal principles of intellectual property law and the policy issues which inform the development of this law in Australia. It is designed as an introductory survey subject for graduates, practicing lawyers and students completing their first law degrees. Classes consider the historical development of intellectual property subject matters, the international framework setting standards including the WIPO, WTO, and AUSTFA and the different forms of intellectual property including copyright, designs, patent, plant breeders protection, trade marks law, passing-off and related actions, moral rights and performers protection.

78026 Business and Law in China
6cp
Requisite(s): [77885 Legal Process and Legal Research OR [60 credit points of completed study in C04148 Master of Law and Legal Practice AND 70211 Contracts]]
These requisites may not apply to students in certain courses. See access conditions.
Postgraduate
With China's emergence as a new economic superpower, and with ever-deepening business ties between Australia and China, it is crucial that students gain an up-to-date understanding of Chinese business law and an awareness of major differences between Australian and Chinese legal and business cultures. This subject focuses on areas of Chinese law that are most relevant for foreign businesses and for law firms with a China practice. Topic areas covered include:
- Chinese legal culture/business culture
- challenges of doing business in China — politics, bureaucracy, corruption, personal connections
- Chinese business enterprise law — state-owned enterprises, companies limited by shares, township and village enterprises, private entrepreneurs, foreign-invested enterprises
- pitfalls surrounding contracts and business transactions with Chinese enterprises
- foreign investment regime in China
- Chinese banking/finance system and capital markets
- business dispute resolution and litigation.

78029 Mediation Practice
6cp
Requisite(s): 79771c Dispute Resolution AND 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject studies the philosophy, theory and practice of mediation as a dominant generic dispute resolution process. It considers the roles of all parties in the mediation process and the legal, ethical and normative framework in which the process is provided. The subject looks at the selection criteria for mediation, both by private parties and by curial reference, and the institutionalisation of mediation by courts and public bodies. Also covered are the stages in the mediation process and the skills required for competent mediation practice. Mediation practice is the frame for the following topics:
- the development of mediation practice and philosophies in the Australian context
- the mediation process and the roles of the participants
- critical appreciation of the trend to institutionalise mediation
- the legal, ethical and normative issues that relate to mediation practice
- critical appraisal of the current debates surrounding training, accreditation and accountability of mediators.

This subject is taught in intensive mode with an emphasis on the use of simulations to explore theory. The prime assessment is a research paper selected from a list of current issues and the secondary is a case study presented in a seminar format.

Note(s)
Students who completed 79771 Dispute Resolution before Autumn 2006 should not enrol in this subject. This subject was previously taught as part of 79771 Dispute Resolution.

78030 Criminal Sentencing Law
6cp
Requisite(s): 70218 Criminal Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
The law of sentencing is without doubt one of the most interesting aspects of criminal law. It is also a critical element of the criminal justice system in New South Wales. This subject begins with a brief revision of how the criminal justice system works. It then plunges into the purpose and science of sentencing, and factors that the court may take into account when exercising its discretion in the sentencing exercise. The subject covers sentencing in the local, district and supreme courts. Students are given a practical idea of what actually happens, how the law is actually applied and what is expected of lawyers, prosecutors and judges during the sentencing exercise.

78036 Technology, Law and the Future of Entertainment
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject considers the future of innovation in the entertainment industries: arts, film broadcasting, music, gaming and telecommunications. Innovation and technological convergence creates opportunities for new and enhanced leisure and social activities. These developments raise controversies in the industries, affecting old media regulation, intellectual property laws, cultural policy, content regulation, competition and innovation policy.

Topics considered include regulation via national law reform, international treaties, industry bodies, industry standards, opinion makers, and technologies of control (digital rights management DRM, surveillance, tracking).
78039 Wickedness and Vice
6cp
Requisite(s): 70311 Torts OR 70110 Introduction to Law AND 7600c Public International Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
The legal system organises and expresses multiple meanings. This subject considers the structure of wickedness and vice it communicates. The approach taken is consistent with traditional jurisprudential concerns such as natural law theory and positivism, and theorising about the criminal legal system as a system of blaming. The subject introduces students to various jurisprudential and general philosophical accounts of the legal system’s approach to wickedness and vice. These theories are applied to specific issues, including questions about our duty to obey, the regulation of morality, the malice of the law and the characterisation of terrorism. This subject is particularly timely, given increasing international reliance on a ‘discourse of evil’. Theory is essential to the law. Theory gives us a way of thinking about issues differently. This is particularly important when a legal problem appears to be insurmountable. Theory offers the possibility of imagining the world differently.

78040 The Law and Education
6cp
Requisite(s): 70113 Legal Process and History AND 70105 Legal Research OR 70115 Perspectives on Law AND 70120 Legal Method and Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
The object of this subject is to examine the law as it applies to compulsory and higher education today. It is designed to encourage thought and excite debate in the many areas where the law currently impacts upon both education sectors. The subject begins by outlining the legal framework for the provision of education and the governance and management of schools and universities. It then considers many of the legal issues which arise in education today in a wide range of areas such as tort, contract and consumer law, administrative law and human rights law. Current issues are examined comparatively with jurisdictions such as the United States, the United Kingdom, Canada and New Zealand.

78041 New Families, New Technologies
6cp
Postgraduate
This subject explores the multiple legal dimensions regulating families formed with the assistance of reproductive technologies. These dimensions include health and legal regulations governing the provision of reproductive technologies, ethical practice and contractual rights of individuals during treatment, direct legal regulation of practices such as surrogacy and the parental status of children.
While this subject complements subjects such as the biomedical law subjects and 77734 Law and Medicine, its focus is firmly on the recipients rather than the providers of new reproductive technologies. The subject’s approach centers family formation and recognition of family relationships formed through non-traditional means. Adoption and international adoption are also considered for this reason.
The main focus is on current Australian law, but international comparative material and future Australian reform options are also discussed.

78042 Environmental Planning and Development Law
6cp
Requisite(s): 70417 Administrative Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate and Postgraduate
This subject introduces students to the basic rules of environmental planning and development law in New South Wales. The primary focus is on the ‘development control and assessment process’ in NSW, which is part of the system of statutory environmental planning contained in the Environmental Planning and Assessment Act 1979.
In addition to the Environmental Planning and Assessment Act 1979, other legislation is covered as well including, but not limited to, the Local Government Act 1993, the Land and Environment Court Act 1979, the Environment Protection and Biodiversity Conservation Act 1999, the Protection of the Environment Operations Act 1997, the Rivers and Foreshores Improvement Act 1948, the National Parks and Wildlife Act 1974, the Heritage Act 1977, the Threatened Species Conservation Act 1995 and the Water Management Act 2000.
The subject covers the following topic areas: the making of environmental planning instruments, the meaning of development, the different categories of development, the development control process, development applications and development consents, existing use rights, part 3A major development, part 4A certificates, part 5 environmental assessment, enforcement of environmental planning laws, the powers of NSW local councils and decision-making by councils.
In order to properly understand and appreciate the law in relation to environmental planning and the development control and assessment process, it is essential that students gain an understanding of the institutions, legal principles, thought-forms, constructs and techniques of local government in NSW. Accordingly, the subject also includes such fundamental topic areas as the legal nature and role of NSW councils, their organisational structure, the roles and functions of the various ‘players’, decision-making mechanisms (including the conduct of meetings), delegations, sub-delegations and authorisations.

78100 Postgraduate Legal Research
8cp
Requisite(s): 75420c Ethics and Professional Conduct
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. It explores the traditional boundaries of legal research within the development and application of empirical methodologies. Emphasis is placed upon currency in legal research; the application of quantitative and qualitative methodologies to legal research and refining research skills in interdisciplinary areas with application to legal research.
Typical availability
Autumn semester, City campus
Spring semester, City campus

78101 Postgraduate Legal Research
8cp
Postgraduate
This subject develops theoretical understandings and practical applications of research across the discipline of law and related fields. It explores the traditional boundaries of legal research within the development and application of empirical methodologies. Emphasis is placed upon currency in legal research; the application of quantitative and qualitative methodologies to legal research and refining research skills in interdisciplinary areas with application to legal research.
Typical availability
Autumn semester, City campus
Spring semester, City campus

78102 LLM Project by Research
8cp
Requisite(s): 78100c Postgraduate Legal Research OR 70717 Evidence and Criminal Procedure
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject comprises the research and writing of a supervised thesis on an approved topic in law. The thesis is between 8000-12000 words providing an opportunity for postgraduate law students to further develop and refine their legal research and writing skills as well as explore and analyse a topic of law of their own choosing at a high level to produce a superior quality piece of academic work. In most cases, the thesis extends and develops research done in one or more of the electives already undertaken, but in appropriate circumstances a candidate may undertake a new topic.

Access conditions are available in the individual subject descriptions in the online handbook.
While LLM students may undertake this subject as a law option subject, it is not necessary under the honours rules that LLM students complete the LLM Project by Research for the award of honours to be conferred. LLM students may qualify for the award of honours if they have received a percentage mark of at least 80 per cent in all subjects. Enrolment in this subject for LLM students is generally appropriate for students in their final semester of study.

**Typical availability**

Autumn semester, City campus

**Spring semester, City campus**

### 78103 Common Law Legal Traditions

8cp

Requisites: 78100c Postgraduate Legal Research

These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

Postgraduate

This intensive subject provides the bridge between the civil law and the common law. It is a comprehensive subject aimed at lawyers from countries with civil or dual civil and common law legal systems. It opens with expert tuition and practical exercises in the research skills and methodology of the common law. The topics covered include primary and secondary sources of the common law; the development of the common law; courts and lawyers; the spread and reception of the common law; law finding in the common law; contract law in the common law; public law and the common law; and business transactions in the common law.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**Note(s)**

1. Requires Faculty of Law approval.

2. Eligible students must enrol in their first semester of study.

### 78104 Genetics and the Law

8cp

Requisites: 78100c Postgraduate Legal Research

These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

Postgraduate

This subject examines the scope and limitations of existing regulation of genetic technologies with respect to humans. It also considers recent scientific and technological innovations in the area of human genetics and the role and effectiveness of law in managing these new developments. The role of law as a means to control both the development of new genetic technologies and the utilisation of existing technologies is also evaluated. This includes a specific focus on individual decision-making versus responsibility for genetic risk, individual versus group rights, genetic privacy, genetic discrimination, reproductive autonomy, and ownership and control of genetic information and research developments. Specific issues covered include regulatory limits on the use of genetic screening of adults, children and newborns; prenatal genetic testing and genetic testing of adults and children; the regulation of genetic registers, protecting genetic information privacy and the problem of familial information; measures to control genetic discrimination in employment and insurance; the regulation of genetic research through the NHMRC guidelines and other means; the regulation of genetics in medical research including gene therapy, inheritable genetic modification, stem cell research and human somatic cell nuclear transfer (cloning technologies); and the establishment of biobanks and the concept of genomic property.

### 78105 Genetics and the Law

6cp

Postgraduate

This subject examines the scope and limitations of existing regulation of genetic technologies with respect to humans. It also considers recent scientific and technological innovations in the area of human genetics and the role and effectiveness of law in managing these new developments. The role of law as a means to control both the development of new genetic technologies and the utilisation of existing technologies is also evaluated. This includes a specific focus on individual decision-making versus responsibility for genetic risk, individual versus group rights, genetic privacy, genetic discrimination, reproductive autonomy, and ownership and control of genetic information and research developments. Specific issues covered include regulatory limits on the use of genetic screening of adults, children and newborns; prenatal genetic testing and genetic testing of adults and children; the regulation of genetic registers, protecting genetic information privacy and the problem of familial information; measures to control genetic discrimination in employment and insurance; the regulation of genetic research through the NHMRC guidelines and other means; the regulation of genetics in medical research including gene therapy, inheritable genetic modification, stem cell research and human somatic cell nuclear transfer (cloning technologies); and the establishment of biobanks and the concept of genomic property.

### 78106 Climate Law and Carbon Markets

8cp

Requisites: 78100c Postgraduate Legal Research

These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

Postgraduate

This subject examines climate change, which is one of the most pressing environmental problems of our generation. It is a major business issue that is affecting law, policy and corporate behaviour. The Intergovernmental Panel on Climate Change has said that to avoid irreversible harm to the planet, greenhouse gas emissions must be stabilised, and this will involve a significant and rapid reduction in ‘business as usual’ reductions. This will involve unprecedented cooperation at the international level as well as innovative national responses.

This subject examines the potential role of the international and policy communities as well as the legal and business communities in confronting climate law. It analyses the existing and emerging legal rules and frameworks, both internationally and in Australia, the impacts of these on business and the response from industry. It critically evaluates the incentives for firms to comply and over-comply with environmental laws and participate in voluntary programs and examines the role of business in adaptation measures and climate justice issues.

### 78107 Climate Law and Carbon Markets

6cp

Postgraduate

This subject examines climate change, which is one of the most pressing environmental problems of our generation. It is a major business issue that is affecting law, policy and corporate behaviour. The Intergovernmental Panel on Climate Change has said that to avoid irreversible harm to the planet, greenhouse gas emissions must be stabilised, and this will involve a significant and rapid reduction in ‘business as usual’ reductions. This will involve unprecedented cooperation at the international level as well as innovative national responses.

This subject examines the potential role of the international and policy communities as well as the legal and business communities in confronting climate law. It analyses the existing and emerging legal rules and frameworks, both internationally and in Australia, the impacts of these on business and the response from industry. It critically evaluates the incentives for firms to comply and over-comply with environmental laws and participate in voluntary programs and examines the role of business in adaptation measures and climate justice issues.

### 78108 Globalisation and International Economic Law

8cp

Requisites: 78100c Postgraduate Legal Research

These requisites may not apply to students in certain courses.

There are also course requisites for this subject. See access conditions.

Postgraduate

This subject is designed to critically examine the phenomenon of globalisation, and the related changes currently underway in contemporary international economic law. A particular focus of the subject is on the role of international economic law institutions, such as the World Trade Organization, International Monetary Fund and the World Bank, as they grapple with the many new issues that
globalisation has thrust onto their agendas. How is globalisation changing the nature of international law, international society and global governance?

This subject undertakes a multidisciplinary examination of the phenomenon of globalisation and the associated transformation underway in contemporary international economic law. The subject employs tools and perspectives from a variety of the disciplines which have been used to examine globalisation, such as economics, political theory, moral philosophy and sociology. These tools are used to consider issues such as the changing nature of international and global society (and what, if any, is the difference between the two); pressure on traditional concepts of boundaries, citizenship and nationality; the problem of inequality in the global distribution of resources; challenges to sovereignty and emerging forms of global governance; and how existing and new international institutions can better manage this emerging global social policy agenda.

78109 Globalisation and International Economic Law
6cp
Postgraduate
This subject is designed to critically examine the phenomenon of globalisation, and the related changes currently underway in contemporary international economic law. A particular focus of the subject is on the role of international economic law institutions, such as the World Trade Organization, International Monetary Fund and the World Bank, as they grapple with the many new issues that globalisation has thrust onto their agendas. How is globalisation changing the nature of international law, international society and global governance?

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78110 Banking and Finance Law
8cp
Requisites: 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject deals with the key legal and structuring issues which typically arise where a financier provides large amounts of secured or unsecured financial accommodation to a multi-national corporate group. Certain issues are illustrated by reference to standard industry documentation used domestically and internationally. The aim of the subject is to alert the student to the problems which may arise in this area of practice and at the same time provide a sound foundation for advising in more specific forms of financial accommodation such as project and structured finance. It is also intended that the skills acquired in the subject are transferable to other jurisdictions which have key financial centres.

Typical availability
Spring semester, City campus

78112 Securities Regulation
8cp
Requisites: 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines key issues in the law and regulation relating to securities within Australia. It begins by developing an understanding of the nature of securities as a form of corporate fundraising, and then briefly examines how their issuance and trading is regulated within Australia. The regulatory roles of ASIC and ASX in relation to the issuance and trading of securities are then examined. From the basis of this foundational knowledge, the course is structured into three parts.

Part 1 examines the regulation of securities offerings, including the objectives and focus of Australia’s investor protection laws, the documentation and procedural requirements for securities offerings, and the liability issues that might arise from deficient disclosure. Part 1 concludes with an examination of the continuous disclosure requirements applying to entities that are listed on Australia’s financial markets.

Part 2 undertakes an overview of the regulation of significant transactions involving securities, including share reductions, share buy-backs, self-acquisitions and payments of dividends. It then undertakes an overview of the regulation of merger and acquisition activity within Australia.

Part 3 focuses on the regulation of financial markets within Australia upon which securities are traded, and the various forms of prohibited conduct involving dealings in securities, including insider trading, market manipulation and short selling.

The subject draws upon recent and current case studies relating to the issuance of, and dealing in, securities both within Australia and overseas to further develop students’ knowledge of the various topics examined. Throughout the subject, the significance of several key themes are reinforced, including the importance of timely and accurate disclosure, responsible handling of confidential information, and the potential consequences that might follow from illegal conduct. The subject also develops an appreciation of the commercial considerations that drive and influence significant transactions involving securities, and the various factors which impact upon the operation of financial markets.

Typical availability
Spring semester, City campus

78113 Securities Regulation
6cp
Postgraduate
This subject examines key issues in the law and regulation relating to securities within Australia. It begins by developing an understanding of the nature of securities as a form of corporate fundraising and then briefly examines how their issuance and trading is regulated within Australia. The regulatory roles of ASIC and ASX in relation to the issuance and trading of securities are then examined. From the basis of this foundational knowledge, the subject is structured into three parts.

Part 1 examines the regulation of securities offerings, including the objectives and focus of Australia’s investor protection laws, the documentation and procedural requirements for securities offerings, and the liability issues that might arise from deficient disclosure. Part 1 concludes with an examination of the continuous disclosure requirements applying to entities that are listed on Australia’s financial markets.

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The financial markets of the world came to a standstill and liquidity virtually vanished. Only when such a financial analysis is melded with the applicable company and securities regulatory analysis, can the attorney be able to provide the CF documentation which is the lawyer's responsibility.

Typical availability
Spring semester, City campus

78114 Financial Analysis for the Transactional Lawyer
6cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
This subject is designed to provide the knowledge and skills required to enable a transactional lawyer to engage in a corporate finance (CF) transaction. The subject begins with a review of basic CF terminology and the varieties of CF transactions. With that introduction, the subject turns to its primary focus, a command of the basic principles of finance and the related formulae which a client will use in structuring a CF transaction. The subject does not enable a student to serve as an investment banker. Rather, it is designed to enable the transactional lawyer to carry on a dialog with a CF client, and other affected parties, so as effectively to integrate legal factors into the complex of considerations involved in both the structure and effectuation of a CF transaction. The financial analysis skills acquired enable the lawyer to bridge the gap between the valuation concepts which lie at the heart of any CF transaction and the legal categories through which that analysis is effectuated. Only when such a financial analysis is melded with the applicable company and securities regulatory analysis, can the attorney be able to provide the CF documentation which is the lawyer's responsibility.

Typical availability
Spring semester, City campus

78115 Financial Analysis for the Transactional Lawyer
6cp
Postgraduate
This subject is designed to provide the knowledge and skills required to enable a transactional lawyer to engage in a corporate finance (CF) transaction. The subject begins with a review of basic CF terminology and the varieties of CF transactions. With that introduction, the subject turns to its primary focus, a command of the basic principles of finance and the related formulae which a client will use in structuring a CF transaction. The subject does not enable a student to serve as an investment banker. Rather, it is designed to enable the transactional lawyer to carry on a dialog with a CF client, and other affected parties, so as effectively to integrate legal factors into the complex of considerations involved in both the structure and effectuation of a CF transaction. The financial analysis skills acquired enable the lawyer to bridge the gap between the valuation concepts which lie at the heart of any CF transaction and the legal categories through which that analysis is effectuated. Only when such a financial analysis is melded with the applicable company and securities regulatory analysis, can the attorney be able to provide the CF documentation which is the lawyer's responsibility.

Typical availability
Spring semester, City campus

78116 International Regulation of Financial Institutions
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
Although the activities of financial institutions (FIs) are frequently international in nature, governments have traditionally viewed FIs and their regulations as a national matter. During the recent Global Financial Crisis (GFC) the financial markets of the world came to a standstill and liquidity virtually vanished. Government intervention by a number of nations eventually prevented a total collapse. Thus, the GFC forced recognition of its international dimension and of the interconnectedness of all financial markets and most major FIs. This subject deals with the nature of the proposals adopted to prevent a subsequent GFC. A number of steps have been taken, but the US enactment of the Dodd-Frank Act (DFA), in particular, may be viewed as a template for developing an international FI regulatory regime. The subject is designed to provide: an analysis of the GFC and its causes as well as the world economy out of which it grew; a description of the international regime following the DFA and actions taken by other significant economies; a brief description of the ways in which hortatory declarations are implemented by domestic action; insight into the vitally important Basel Capital Accords; and treatment of the equally important international/domestic accounting requirements.

Typical availability
Spring semester, City campus

78117 International Regulation of Financial Institutions
6cp
Although the activities of financial institutions (FIs) are frequently international in nature, governments have traditionally viewed FIs and their regulations as a national matter. In late 2007, as the US real estate bubble started unravelling, a general recognition arose of those debt securities that were relied on for payout; so began the spiral of the Global Financial Crisis (GFC). The situation worsened when Lehman Brothers, a global financial services firm, failed and the US Government did not take action to rescue it. The financial markets of the world came to a standstill and liquidity virtually vanished. Only massive government intervention by a number of nations eventually prevented a total collapse. Thus, the GFC forced recognition of its international dimension and of the interconnectedness of all financial markets and most major FIs. This subject deals with the nature of the proposals adopted to prevent a subsequent crisis. A number of steps have been taken, but the US enactment of the Dodd-Frank Act (DFA), in particular, may be viewed as a template for developing an international FI regulatory regime. The subject is designed to provide: an analysis of the GFC and its causes as well as the world economy out of which it grew; a description of the international regime following the DFA and actions taken by other significant economies; a brief description of the ways in which hortatory declarations are implemented by domestic action; insight into the vitally important Basel Capital Accords; and treatment of the equally important international/domestic accounting requirements.

Typical availability
Spring semester, City campus

78118 Business and Law in China
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate
With China’s emergence as a new economic superpower, and with ever-deepening business ties between Australia and China, it is crucial that students gain an up-to-date understanding of Chinese business law and an awareness of the major differences between Australian and Chinese legal and business cultures. This subject adopts a case-based, problem-solving approach to focus on the areas of:
• current legal system and legal/business culture of China
• Chinese investment law environment and how it differs from Australia
• corporate structures and the status of business corporations in China since China’s accession to the World Trade Organization
• the legal environment for foreign entities doing business in and with China, potential risks and case studies
• China’s WTO compliance and Australia–China Free Trade Agreement – case studies.

The subject is important for students wishing to understand the interactions between law, business, politics and culture in China today. Students develop practical and research skills that assist them in understanding the business environment in China in contrast to that of Australia.

Typical availability
Autumn semester, City campus

Spring semester, City campus
78119 Commercial Arbitration (Domestic)
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines the practice of arbitration from both a practical and theoretical perspective. It deals comprehensively with domestic commercial arbitration subject to the Commercial Arbitration Act 1984 including the jurisdiction, powers and role of the arbitrator, how the arbitration is to be conducted and the award presented and enforced.
This is a comprehensive coverage of this area suitable for any student contemplating participation in arbitrations, either as a legal representative or as an arbitrator.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78121 Corporate Insolvency
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject aims to provide students with a detailed and practical understanding of the various insolvency and restructuring options that are available to companies in financial distress. The discussion of corporate insolvency laws is placed within the broader commercial and social context of business failure, including the impact of insolvency on secured and unsecured creditors, employees and tort victims. In particular, this subject discusses the range of formal and informal debt restructuring techniques that may be used to assist a company in financial distress. Where relevant, the subject materials provide a comparison between Australia’s corporate insolvency and restructuring laws and corresponding laws in Europe, North America and Asia.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78122 Corporate Insolvency
6cp
Postgraduate
This subject aims to provide students with a detailed and practical understanding of the various insolvency and restructuring options that are available to companies in financial distress. The discussion of corporate insolvency laws is placed within the broader commercial and social context of business failure, including the impact of insolvency on secured and unsecured creditors, employees and tort victims. In particular, this subject discusses the range of formal and informal debt restructuring techniques that may be used to assist a company in financial distress. Where relevant, the subject materials provide a comparison between Australia’s corporate insolvency and restructuring laws and corresponding laws in Europe, North America and Asia.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78123 Deceptive Trade Practices
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines deceptive trade practices law in Australia, including the meaning of trade and commerce, the meaning of misleading or deceptive conduct, and the remedies available where there has been misleading or deceptive conduct.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78124 Dispute Resolution in Commerce
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an overview of dispute management and complaints handling systems, together with further consideration of the developing body of dispute resolution and negotiation theory and practice in the commercial context.
There is an increasing demand for the development of dispute resolution systems that avoid an adversarial approach in commercial environments where delay, high legal costs and limited possible outcomes are being perceived as counterproductive in the highly competitive commercial environment. Increasingly there have been legislative responses for providing both processes and process providers for resolving and settling commercial disputes. These developments are also studied in the context of changing corporate structures and cultures and the demands for effective, accessible, cost efficient and ethical methods for dealing with commercial disputes.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78125 Corporate Governance
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject deals with topics of central importance to the governance of the large, especially the publicly-held, business corporation. As a field of study, corporate governance deals with the rules, relationships, systems and processes within a corporation by which authority is allocated and its exercise reviewed and controlled. Corporate governance provides a framework which shapes the dealings and relationships between directors, managers, shareholders and others with a stake in the corporation’s success. In this subject, topics are studied from a comparative perspective that takes account of developments in the principal markets and legal systems.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78126 Corporate Governance
6cp
Postgraduate
This subject deals with topics of central importance to the governance of the large, especially the publicly-held, business corporation. As a field of study, corporate governance deals with the rules, relationships, systems and processes within a corporation by which authority is allocated and its exercise reviewed and controlled. Corporate governance provides a framework which shapes the dealings and relationships between directors, managers, shareholders and others with a stake in the corporation’s success. In this subject, topics are studied from a comparative perspective that takes account of developments in the principal markets and legal systems.

Typical availability
Autumn semester, City campus
Spring semester, City campus
78127 Advanced Mediation
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136
Dispute Resolution
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Postgraduate
This subject builds on the introductory theory and practice presented
in 79771 Dispute Resolution and 7829 Mediation Practice. This subject
provides an overview and examination of a range of innovative
mediation processes that have recently been developed to demonstrate
the wide theoretical bases underpinning the development and
application of mediation practice. Mediation models including
narrative, transformative, relational, holistic, insight and bio-ethical
are studied as well as culturally significant models that have been
developed. The philosophies, theories and practice attaching to
these models is also examined in the context of the diversity of
their originating disciplines, including psychology, anthropology,
sociology, theology and contemporary community norms.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78128 Child Law in Australia
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136
Dispute Resolution
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Postgraduate
This subject enhances and builds upon law studies as they relate to
children; in particular, constitutional law, criminal law, contracts,
torts and the law of evidence. The subject includes issues ranging
from children’s rights, child development theory, care and protection
(including fostering), preschool and school education, civil liability,
juvenile justice, legal representation, access to medical treatment
and procedures. The present law in New South Wales is considered
as well as the historical development of laws relating to children,
proposed reforms and comparative material from other jurisdictions.
The subject combines both a theoretical and a vocational approach
to the study of these issues and is not only of benefit to students
interested in these issues, but also to those students considering a
career, or enhancing their career, in legal practice and / or the delivery
of children’s legal services.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78129 Child Law in Australia
6cp
Postgraduate
This subject enhances and builds upon law studies as they relate to
children; in particular, constitutional law, criminal law, contracts,
torts and the law of evidence. The subject includes issues ranging
from children’s rights, child development theory, care and protection
(including fostering), preschool and school education, civil liability,
juvenile justice, legal representation, access to medical treatment
and procedures. The present law in New South Wales is considered
as well as the historical development of laws relating to children,
proposed reforms and comparative material from other jurisdictions.
The subject combines both a theoretical and a vocational approach
to the study of these issues and is not only of benefit to students
interested in these issues, but also to those students considering a
career, or enhancing their career, in legal practice and / or the delivery
of children’s legal services.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78130 Complex Parenting Disputes
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136
Dispute Resolution
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Postgraduate
This subject addresses issues arising in complex children’s cases in
family law through a series of detailed case studies. It addresses
disputes and intractable conflict in areas of:
• health and medical decision-making where the parents or parent
  and child have divergent views
• claims involving non-parents
• sexual and physical abuse allegations
• impaired parenting capacity
• care and protection proceedings.
The subject is of interest to anyone practising in the areas of family
law and child protection. The main focus is on current Australian law,
but international comparative material and future Australian reform
options are also discussed.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78131 Complex Parenting Disputes
6cp
Postgraduate
This subject addresses issues arising in complex children’s cases in
family law through a series of detailed case studies. It addresses
disputes and intractable conflict in areas of:
• health and medical decision-making where the parents or parent
  and child have divergent views
• claims involving non-parents
• sexual and physical abuse allegations
• impaired parenting capacity
• care and protection proceedings.
The subject is of interest to anyone practising in the areas of family
law and child protection. The main focus is on current Australian law,
but international comparative material and future Australian reform
options are also discussed.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78132 Complex Financial and Property Disputes (in Family
Law)
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136
Dispute Resolution
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access
conditions.
Postgraduate
This subject builds upon previous study and / or practice in family
law. It aims to develop an advanced understanding of the forms of
proprietary relief which are available to resolve complex property
disputes arising from relationship breakdown. Apart from considering
recent legislative reform and judicial decisions, the subject considers
various topics including financial agreements, late applications,
superannuation, third parties, creditors and bankruptcy; setting aside
orders, enforcement and the implications of revenue law. The subject
also aims to encourage students to think critically, reflexively and
creatively about the resolution of these complex issues.

Typical availability
Autumn semester, City campus
Spring semester, City campus
78133 Complex Financial and Property Disputes (in Family Law)
6cp
Requisite(s): C04143 Master of Laws OR C02027 Doctor of Juridical Science OR C04148 Master of Law and Legal Practice OR C04147 Master of Legal Studies OR C07074 Graduate Diploma in Legal Studies
Postgraduate
This subject builds upon previous study and/or practice in family law. It aims to develop an advanced understanding of the forms of proprietary relief which are available to resolve complex property disputes arising from relationship breakdown. Apart from considering recent legislative reform and judicial decisions, the subject considers various topics including financial agreements, late applications, superannuation, third parties, creditors and bankruptcy, setting aside orders, enforcement and the implications of revenue law. The subject also aims to encourage students to think critically, reflexively and creatively about the resolution of these complex issues.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78134 Current Issues in Family Law
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136 Dispute Resolution
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject builds upon previous study and/or practice in family law. It aims to develop a broader understanding of family law in its social context, including an understanding of the processes of law reform and policy development. The course content reflects current issues and developments in key areas such as relationship recognition, parenting disputes and child protection, financial support and property division. It also considers dispute resolution options, the financing of litigation and any relevant changes to the Family Law Rules and the delivery of related services. Overall, the subject encourages students to think critically and reflexively about current policy arguments, legal issues and the practice of family law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78135 current Issues in Family Law
6cp
Postgraduate
This subject builds upon previous study and/or practice in family law. It aims to develop a broader understanding of family law in its social context, including an understanding of the processes of law reform and policy development. The course content reflects current issues and developments in key areas such as relationship recognition, parenting disputes and child protection, financial support and property division. It also considers dispute resolution options, the financing of litigation and any relevant changes to the Family Law Rules and the delivery of related services. Overall, the subject encourages students to think critically and reflexively about current policy arguments, legal issues and the practice of family law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78136 Dispute Resolution
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is an introduction to the philosophy, theory and practice of dispute resolution, an area of increasing importance in all professions, business, and government. The new legal advocacy is based on the principles and processes studied in this subject.

The subject content reflects the changes in the many state and federal jurisdictions necessary to integrate a range of voluntary and compulsory dispute resolution processes with adversarial proceedings. The subject also covers the development and application of an ever-widening range of private and public situations dispute resolution processes required under legislation or government and professional requirements.

This emerging practice of professional dispute resolution is examined both within and outside the legal profession. Overall, the subject encourages students to think critically and reflexively about this emerging area of practice, the legal, professional and policy issues, and to learn the core practical skills.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78137 Facilitation
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136 Dispute Resolution
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers the range of facilitative processes and techniques applied to the resolution of disputes in both the public and private arenas. Students are introduced to the extensive scholarship, strategies and skills that are required for the resolution of disputes using consultative, consensus-seeking and restorative processes with the assistance of a facilitator. The subject focuses on the use of these processes in the resolution of a broad range of multi-party disputes where mediation and conciliation processes are not indicated. The subject examines the design and use of these processes in:
- the public arena, such as environmental and other multi-party disputes involving governmental and quasi-governmental, social and community concerns
- the juvenile and adult criminal justice system
- family and civil law systems, such as in the resolution of family welfare disputes and multi-party family or community-based disputes
- schools and other educational organisations and other institutions where the needs of community behaviour require disciplinary systems that are both restorative and educational.

In addition, the subject examines, generally, where a process, required to address concerns of parties to a dispute, is able to provide a satisfying and effective outcome that also has the possibility of being transformative for the participants and for the community. In particular, the subject involves students in the critical study of the scholarship, the philosophy and values, the skills and the issues arising out of the application of these facilitative processes.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78138 Facilitation
6cp
Requisite(s): 79771 Dispute Resolution
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers the range of facilitative processes and techniques applied to the resolution of disputes in both the public and private arenas. Students are introduced to the extensive scholarship, strategies and skills that are required for the resolution of disputes using consultative, consensus-seeking and restorative processes with the assistance of a facilitator. The subject focuses on the use of these processes in the resolution of a broad range of multi-party disputes where mediation and conciliation processes are not indicated. The subject examines the design and use of these processes in:
- the public arena, such as environmental and other multi-party disputes involving governmental and quasi-governmental, social and community concerns
- the juvenile and adult criminal justice system

Access conditions are available in the individual subject descriptions in the online handbook.
78141 International and Comparative Family Law
6cp
Postgraduate
This subject explores issues in family law from an international and comparative perspective. It examines the legal relationship among children, families and the state, with special emphasis on the United Nations Convention of the Rights of the Child 1989 and other human rights documents that govern the role of government and the law in family life. The course compares and contrasts Australian family law with one or more international jurisdictions (e.g. the United States, the United Kingdom, New Zealand and Canada) on a number of issues including relationships (formation and recognition), parenting and parenting disputes, and financial disputes following relationship breakdown. The subject specifically examines how international treaties (such as the Hague Conventions) have shaped the development of family law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78142 New Families, New Technologies
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136 Dispute Resolution
These requisites may not apply to students in certain courses.
These are also course requisites for this subject. See access conditions.
Postgraduate
This subject is an introduction to the key concepts in reproductive technologies, and the impact this will have on modern legal advocacy and professional practice.
This subject explores issues in family law from an international and comparative perspective. It examines the legal relationship among children, families and the state, with special emphasis on the United Nations Convention of the Rights of the Child 1989 and other human rights documents that govern the role of government and the law in family life. The course compares and contrasts Australian family law with one or more international jurisdictions (e.g. the United States, the United Kingdom, New Zealand and Canada) on a number of issues including relationships (formation and recognition), parenting and parenting disputes, and financial disputes following relationship breakdown. The subject specifically examines how international treaties (such as the Hague Conventions) have shaped the development of family law.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78143 Psychology and Dispute Resolution
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78136 Dispute Resolution
These requisites may not apply to students in certain courses.
These are also course requisites for this subject. See access conditions.
Postgraduate
This subject is an introduction to key concepts in psychology that have relevance for dispute resolution practice. A main focus of this subject is the application of psychological concepts to disputes and conflict situations in order to understand what is going on and to start to learn to harness new skills and paradigms to work more effectively with ongoing conflict and within the dispute resolution process. It is presented in an intensive program of three full-day sessions on campus plus a day of seminar presentations. These four day sessions are supplemented by readings and research in an area of the subject that interests the student.
During the full-day sessions each psychological concept is explored using the following format:

- theory: past and current
- research: evidence for and against the theory
- application of the concept to dispute resolution
- practice: exercises, homework, role-play
- discussion: as a student/practitioner how can I apply this?; what is its value?; what have I learnt?
- future directions:
  - how is the concept evolving?; what are the implications for the practice of dispute resolution?
  - as a student/practitioner: where do I go from here?; what action can I take?

Typical availability
Autumn semester, City campus
Spring semester, City campus

78144 Contemporary Issues in Health Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject deals with current issues in health law. The area of health is dynamic and ever evolving and the law must recognise the rapid developments and impact of new technologies, treatments and consider the future impact of current policies. Class discussion focuses on the need for regulation; the current systems in place; the responses to the ethical and legal dilemmas that may arise and the contribution that the law makes. Topics include the rapid advancement and future direction of medical technology; neuroscience and law; public health issues such as obesity, alcohol, pandemics; aged care and tobacco; responses to emergencies; drug policy and the effects on the health system; the pharmaceutical industry; International perspectives; discrimination and access to treatment; e-health and the cosmetic surgery industry.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78145 Contemporary Issues in Health Law
8cp
Postgraduate
This subject deals with current issues in health law. The area of health is dynamic and ever evolving and the law must recognise the rapid developments and impact of new technologies, treatments and consider the future impact of current policies. Class discussion focuses on the need for regulation; the current systems in place; the responses to the ethical and legal dilemmas that may arise and the contribution that the law makes. Topics include the rapid advancement and future direction of medical technology; neuroscience and law; public health issues such as obesity, alcohol, pandemics; aged care and tobacco; responses to emergencies; drug policy and the effects on the health system; the pharmaceutical industry; International perspectives; discrimination and access to treatment; e-health and the cosmetic surgery industry.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78146 Dilemmas in Biomedical Law
8cp
Requisite(s): 78100c Postgraduate Legal Research AND (C04236 Juris Doctor OR C04250 Juris Doctor Master of Business Administration)
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an in-depth exploration of select current issues in the way in which the legal system responds to new biomedical developments. It is often assumed that law reform solves many of the dilemmas which society faces through technological advances in areas such as genetic testing and cloning. This subject examines such traditional assumptions as to the efficacy of legal regulation through an analysis of the strengths and limitations of differing regulatory choices. From hard law through to soft law, this subject uses the issues that arise in biomedical law and the principles of bioethics to examine policy choices and practical outcomes. In particular, the subject seeks to examine the impact which emerging medical developments may have on society, and to explore possible legal solutions to deal with the challenges presented by such innovations.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78147 Dilemmas in Biomedical Law
8cp
Postgraduate
This subject provides an in-depth exploration of select current issues in the way in which the legal system responds to new biomedical developments. It is often assumed that law reform solves many of the dilemmas which society faces through technological advances in areas such as genetic testing and cloning. This subject examines such traditional assumptions as to the efficacy of legal regulation through an analysis of the strengths and limitations of differing regulatory choices. From hard law through to soft law, this subject uses the issues that arise in biomedical law and the principles of bioethics to examine policy choices and practical outcomes. In particular, the subject seeks to examine the impact which emerging medical developments may have on society, and to explore possible legal solutions to deal with the challenges presented by such innovations.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78148 Law and Medicine
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject deals with the interface between law and medicine. It provides a specialist examination of the issues which confront both health care providers and their patients in the context of continuing systemic and resource problems. These issues include the handling of complaints against health care professionals and the regulation of the professions, the duties of doctors and medical negligence, consent to treatment, access to medical records and confidentiality, and alternative or complementary medicine.

Typical availability
Autumn semester, City campus
Spring semester, City campus
78149 Law and Mental Health
8cp
Postgraduate
This subject is designed to give students an introduction and overview of the interface between the disciplines of psychiatry and law. It examines how the empirical research and theories of psychology intersect with the application of legal principles and practices. As a result of successfully completing this subject, students should be able to translate personal and/or social issues concerning the study of mental illness into the practice of mental health law. Furthermore, students should be able to evaluate the efficacy of different perspectives in relation to contemporary debates about mental illness. Students should also demonstrate successful teamwork, involving the ability to participate in collaborative learning activities, both face-to-face and also demonstrate the development of independent learning skills.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78150 Law and Mental Health
6cp
Postgraduate
This subject is designed to give students an introduction and overview of the interface between the disciplines of psychiatry and law. It examines how the empirical research and theories of psychology intersect with the application of legal principles and practices. As a result of successfully completing this subject, students should be able to translate personal and/or social issues concerning the study of mental illness into the practice of mental health law. Furthermore, students should be able to evaluate the efficacy of different perspectives in relation to contemporary debates about mental illness. Students should also demonstrate successful teamwork, involving the ability to participate in collaborative learning activities, both face-to-face and also demonstrate the development of independent learning skills.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78151 Human Rights Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
International human rights law is a body of law with important substantive and procedural aspects in its application. As a body of law that is designed to oversee the treatment of individuals and groups by the state machinery, it has significant implications for all countries and calls for a systematic, scholarly analysis to ensure its proper understanding and practice. As a discipline, international human rights law is relevant not only to societies with oppressive regimes, but also to those with sophisticated, democratic institutions. International human rights norms impose obligations on the state by ensuring that it is accountable internationally for the treatment of persons both at the hands of government institutions and officials and through the acts of other private persons. The aim of this subject is to provide students with knowledge of, and interpretive skills in, international and regional human rights law by examining the concept and history of human rights, the supra-national institutions and mechanisms concerned with the promotion and protection of human rights, the substantive legal principles governing the interpretation and application of international and regional human rights laws, and the issues associated with their implementation in the domestic sphere.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78152 International Commercial Transactions
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an overview of international business transactions and the framework for international regulation of commercial transactions. Furthermore, the subject provides an overview of international trade organisations (e.g. WTO, EU) and the uniform law applicable to international sale of goods (CSG).

Other key themes in the subject include aspects of the international regulation of trade in goods: WTO; an overview of licensing transactions and licensing into the EU; an overview of foreign direct investment and issues of investing in Europe.

The subject also provides an introduction to dispute resolution issues; and an overview of trans-boundary dispute resolution.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78153 International Commercial Transactions
6cp
Postgraduate
This subject provides an overview of international business transactions and the framework for international regulation of commercial transactions. Furthermore, the subject provides an overview of international trade organisations (e.g. WTO, EU) and the uniform law applicable to international sale of goods (CSG).

Other key themes in the subject include aspects of the international regulation of trade in goods: WTO; an overview of licensing transactions and licensing into the EU; an overview of foreign direct investment and issues of investing in Europe.

The subject also provides an introduction to dispute resolution issues; and an overview of trans-boundary dispute resolution.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78154 International Criminal Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject examines international criminal law from both theoretical and practical perspectives. The subject commences by examining the historical and conceptual framework of international criminal law and justice, as well as the sources of international criminal law. It then examines the jurisdictional ability of international law to prosecute individuals responsible for war crimes, genocide, crimes against humanity, aggression, torture, and terrorism. The history of international criminal courts and tribunals is also examined including the theoretical bases for the establishment of the ad hoc international criminal tribunals, the International Criminal Court, and their temporal and subject matter jurisdiction. Following on, the subject examines key principles of international criminal justice including principles of criminal culpability, as well as possible exclusions and defences, and judicial procedures to be applied. The subject then examines the substantive law of war crimes, crimes against humanity, aggression, torture, and terrorism, including their scope both as treaty and customary crimes, as well as key prosecutions that have taken place concerning the respective crimes.

Typical availability
Autumn semester, City campus
Spring semester, City campus
This subject is an advanced study of private international law as it operates within the Commonwealth of Australia and in relation to overseas countries, with emphasis on issues of current relevance, and with reference to American and European law. In this context, governing doctrinal principles and leading cases on conflicting issues from private law, including torts, contracts, agency, marriage, divorce, inheritance and real property are discussed. Important rules laid down in international treaties, which have priority over national conflict of laws are addressed. In particular, current developments at the Hague Conference on Private International Law and in the European Union are examined. The foundation of private international law is also explored.

**Typical availability**

Autumn semester, City campus

**Postgraduate**

This subject is an advanced study of private international law as it operates within the Commonwealth of Australia and in relation to overseas countries, with emphasis on issues of current relevance, and with reference to American and European law. In this context, governing doctrinal principles and leading cases on conflicting issues from private law, including torts, contracts, agency, marriage, divorce, inheritance and real property are discussed. Important rules laid down in international treaties, which have priority over national conflict of laws are addressed. In particular, current developments at the Hague Conference on Private International Law and in the European Union are examined. The foundation of private international law is also explored.

**Typical availability**

Autumn semester, City campus

**Spring semester, City campus**

**78158 Private International Law**

6cp

**Postgraduate**

This subject is an advanced study of private international law as it operates within the Commonwealth of Australia and in relation to overseas countries, with emphasis on issues of current relevance, and with reference to American and European law. In this context, governing doctrinal principles and leading cases on conflicting issues from private law, including torts, contracts, agency, marriage, divorce, inheritance and real property are discussed. Important rules laid down in international treaties, which have priority over national conflict of laws are addressed. In particular, current developments at the Hague Conference on Private International Law and in the European Union are examined. The foundation of private international law is also explored.

**Typical availability**

Autumn semester, City campus

**Spring semester, City campus**

**78159 Rights and Obligations in the International Legal System**

8cp

**Postgraduate**

This is a foundational subject in the LLM International Law program. The objective of the subject is to develop an advanced understanding of the basis and scope of the rights and obligations of states in the international legal system. While the design of the subject pays close attention to the theoretical foundations of international law, its substance emphasises the problems in the practical application of the law and leads students to critically evaluate the limits of state obligations in the international legal system, and the role of the practitioner in the resolution of legal problems in the system. Through the use of specific topical issues, the subject aims at equipping the student with an in-depth understanding of the interface between domestic law and international law, and the relevance of international law rules to the practice of law in the domestic context. At the end of the subject, students are expected to have gained a full understanding of the principal theories in international law relating to the basis of obligation of states and how such theories in practice relate to the behaviour of states in international relations and in domestic law. Students also gain a high level of insight and understanding of the practical relevance and application of international law through the comprehensive analysis of selected topical events.

**Typical availability**

Autumn semester, City campus

**Spring semester, City campus**

**78160 Rights and Obligations in the International Legal System**

6cp

**Postgraduate**

This is a foundational subject in the LLM International Law program. The objective of the subject is to develop an advanced understanding of the basis and scope of the rights and obligations of states in the international legal system. While the design of the subject pays close attention to the theoretical foundations of international law, its substance emphasises the problems in the practical application of the law and leads students to critically evaluate the limits of state obligations in the international legal system, and the role of the practitioner in the resolution of legal problems in the system. Through the use of specific topical issues, the subject aims at equipping the student with an in-depth understanding of the interface between domestic law and international law, and the relevance of international law rules to the practice of law in the domestic context. At the end of the subject, students are expected to have gained a full understanding of the principal theories in international law relating to the basis of obligation of states and how such theories in practice relate to the behaviour of states in international relations and in domestic law. Students also gain a high level of insight and understanding of the practical relevance and application of international law through the comprehensive analysis of selected topical events.
Typical availability
Autumn semester, City campus
Spring semester, City campus

**78161 Global Governance and Social Justice**
6cp
Requisites: 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

The subject examines aspects of international governance which advance social justice. Beginning with a discussion of the notion of social justice within an international context, the subject analyses the impact of international agreements in promoting the aims and objectives of social justice. The focus of the subject is on key structures and processes at the global level (especially the United Nations) and at regional levels (such as the European Union and ASEAN) and their interaction with nation states. It considers these issues in the broad context of economic and social governance as well as in more specific areas such as taxation and labour. Special attention is given to the role of civil society.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78162 Global Governance and Social Justice**
6cp
Postgraduate

The subject examines aspects of international governance which advance social justice. Beginning with a discussion of the notion of social justice within an international context, the subject analyses the impact of international agreements in promoting the aims and objectives of social justice. The focus of the subject is on key structures and processes at the global level (especially the United Nations) and at regional levels (such as the European Union and ASEAN) and their interaction with nation states. It considers these issues in the broad context of economic and social governance as well as in more specific areas such as taxation and labour. Special attention is given to the role of civil society.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78163 Law and Regulation**
6cp
Requisites: 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject explores the concept of regulation. As political, economic and social change occurs traditional methods of regulating the economy, preserving the environment, enhancing protections of rights/ensuring liability and providing social justice become less effective. This subject aims to examine the traditional aspects of regulation and juxtapose them against the new forms of regulation which may possibly create better avenues for outcomes. These new forms of regulation, sometimes terms 'new governance' expand across balancing national, international and supra-national coordination or enhancing the cooperation between public and private institutions. The aim of this subject is to build upon a traditional understanding of regulation and to begin to explore the institutions and techniques which are producing novel outcomes and practices.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78164 Law and Regulation**
6cp
Postgraduate

This subject explores the concept of regulation. As political, economic and social change occurs traditional methods of regulating the economy, preserving the environment, enhancing protections of rights/ensuring liability and providing social justice become less effective. This subject aims to examine the traditional aspects of regulation and juxtapose them against the new forms of regulation which may possibly create better avenues for outcomes. These new forms of regulation, sometimes terms 'new governance' expand across balancing national, international and supra-national coordination or enhancing the cooperation between public and private institutions. The aim of this subject is to build upon a traditional understanding of regulation and to begin to explore the institutions and techniques which are producing novel outcomes and practices.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78165 Media and Entertainment Law and Regulation**
6cp
Requisites: 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject examines the legal and industry self-regulation of media and entertainment content. Students examine the policy and legal issues surrounding regulation of media and entertainment content (including arts, film, broadcasting, music, gaming, and telecommunications), particularly in light of developing media and communications technologies. Throughout the subject students analyse laws that restrict what can be expressed, exhibited, broadcast, published or distributed. Topics include freedom of speech, defamation, contempt, hate speech and vilification, obscenity and pornography, sedition, copyright, and the regulation of the internet.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78166 Media and Entertainment Law and Regulation**
6cp
Postgraduate

This subject examines the legal and industry self-regulation of media and entertainment content. Students examine the policy and legal issues surrounding regulation of media and entertainment content (including arts, film, broadcasting, music, gaming, and telecommunications), particularly in light of developing media and communications technologies. Throughout the subject students analyse laws that restrict what can be expressed, exhibited, broadcast, published or distributed. Topics include freedom of speech, defamation, contempt, hate speech and vilification, obscenity and pornography, sedition, copyright, and the regulation of the internet.

Typical availability
Autumn semester, City campus
Spring semester, City campus

**78167 Perspectives on Regulation**
6cp
Requisites: 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate

This subject aims to offer the perspective of the ‘regulator’. In particular it examines the strengths and weaknesses of regulatory technique from both a practical and theoretical perspective. The purpose of a subject such as this is to recognise the increasing role that the legal practitioner plays in applying and developing ‘soft’ or ‘grey letter’ law rather than the more traditional black letter law. This means that, for example, this subject offers a unique insight into the ability of mechanisms of external review such as ombudsman and
tribunals to achieve administrative justice. It compares and contrasts the impact and effect of regulatory institutions and discuss the role and function and impact of regulatory institutions and isolate and analyse the effectiveness of those institutions from the perspective of the regulator. Such discussion involves determining the regulatory interests of all relevant stakeholders.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78168 Perspectives on Regulation**
6cp
Postgraduate
This subject aims to offer the perspective of the ‘regulator’. In particular it examines the strengths and weaknesses of regulatory technique from both a practical and theoretical perspective. The purpose of a subject such as this is to recognise the increasing role that the legal practitioner plays in applying and developing ‘soft’ or ‘grey letter’ law rather than the more traditional black letter law. This means that, for example, this subject offers a unique insight into the ability of mechanisms of external review such as ombudsman and tribunals to achieve administrative justice. It compares and contrasts the impact and effect of regulatory institutions and discuss the role and function and impact of regulatory institutions and isolate and analyse the effectiveness of those institutions from the perspective of the regulator. Such discussion involves determining the regulatory interests of all relevant stakeholders.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78169 Regulatory Strategies and Compliance Principles**
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
It is difficult to go for more than a week without reading newspaper reports concerning regulatory issues and animal welfare. Whether the stories relate to acts of cruelty to animals, the treatment of animals in laboratories, the labelling of eggs as free-range, or the shipment of live animals, interest in the plight of non-human animals is becoming increasingly important in our society. Over the last decade, this importance has been equalled by the steady growth of interest in animal law. It is a cutting edge area of the law, highlighted by the increasing number of universities that offer law courses in the subject and the growing number of academic journals devoted to animal welfare issues. The subject is designed to provide students with a sound understanding of the fundamentals of regulatory theory and animal law as they apply to farm animals, however the principles learned in this subject apply to animal welfare issues in general. Topics covered include an introduction to regulatory theory and compliance, the difference between animal welfare and animal rights, animals as property, prevention of cruelty, codes of conduct in farming and developments on the international scene.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78170 Regulatory Strategies and Compliance Principles**
8cp
Postgraduate
This subject explores court connected processes which incorporate dispute resolution processes into the court system. It draws on programs in courts in Australia and overseas. It addresses the impact of dispute resolution on the formal adversarial system, and examines the interface of the informal and formal systems, and the effect of the formal systems on the less formal dispute resolution processes.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78171 Crisis Negotiation**
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides a theoretical overview of, and instruction in, the process of crisis negotiation. This subject aims to develop the student’s skills in negotiating crisis situations and in dealing with a hard-bargainer and ‘dirty tricks’. It also addresses the use of negotiation in critical incidents, such as crisis management in the corporate sector, up to the use of the process in counter terrorism. This subject builds on the subject content of 77745 Negotiation, in particular, knowledge of the negotiation process and communication techniques. The subject aims to give the student knowledge and practical skills in negotiation to deal peacefully with potentially volatile situations. The subject is designed for students that may be working in a profession that has exposure to these types of situations (e.g. front line counter staff, psychiatric nurses, community mediators, crisis team workers, social workers, ambulance officers, police officers) and those students interested in the specific application of the negotiation process in critical situations.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78172 Dispute Resolution in Civil Practice**
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject explores court connected processes which incorporate dispute resolution processes into the court system. It draws on programs in courts in Australia and overseas. It addresses the impact of dispute resolution on the formal adversarial system, and examines the interface of the informal and formal systems, and the effect of the formal systems on the less formal dispute resolution processes.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

**78173 Dispute Resolution in Civil Practice**
6cp
Requisite(s): 79771 Dispute Resolution
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject explores court connected processes which incorporate dispute resolution processes into the court system. It draws on programs in courts in Australia and overseas. It addresses the impact of dispute resolution on the formal adversarial system, and examines the interface of the informal and formal systems, and the effect of the formal systems on the less formal dispute resolution processes.

**Typical availability**
Autumn semester, City campus
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
**78174 Mediation Practice**  
8cp  
Requisites: 78100c Postgraduate Legal Research  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
This subject is an introduction to the philosophy, theory and practice of dispute resolution, an area of increasing importance in all professions, business, and government. The new legal advocacy is based on the principles and processes studied in this subject. The subject content reflects the changes in the many state and federal jurisdictions necessary to integrate a range of voluntary and compulsory dispute resolution processes with adversarial proceedings. The subject also covers the development and application of an ever-widening range of private and public situations dispute resolution processes required under legislation or government and professional requirements. This emerging practice of professional dispute resolution is examined both within and outside the legal profession. Overall, the subject encourages students to think critically and reflexively about this emerging area of practice, the legal, professional and policy issues, and to learn the core practical skills.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78175 Negotiation**  
8cp; intensive  
Requisites: 78100c Postgraduate Legal Research  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
This subject is taught in intensive mode and is designed to provide an understanding of the theory and skills of negotiation. It covers the diverse approaches to negotiation, with a focus on principled negotiation as taught by the Harvard Law Faculty’s Negotiation Project. This subject brings together the current theories and practice in negotiation skills and analysis with an emphasis on identifying effective negotiation strategies.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78176 Workplace Dispute Resolution**  
8cp  
Requisites: 78100c Postgraduate Legal Research  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
This subject builds onto the introductory theory and practice presented in the subject Dispute Resolution. This subject studies the significant changes in the past decade of both public and private sector dispute resolution processes and conflict management cultures. The supporting legislation for these cultural changes is also studied in relation to the opportunities offered to disputing parties to find satisfying solutions from both their own and their workplace perspectives.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78177 Converging Media Industries: Regulatory Challenges**  
8cp  
Requisites: 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
Traditional approaches to broadcasting regulation are under threat as the media landscape changes. No longer is it possible to divide neatly the sector into print, television, and radio, and regulate accordingly. New forms of media delivery are changing not only how we access content but the very nature of the content. These changes produce regulatory inconsistencies and vacuums, and challenge traditional assumptions about broadcasting regulation. Interactive media, user-generated content and social networking sites distort traditional media roles and blur the lines between public and private space.  
This subject considers the variety of regulatory models and approaches used in media regulation and examines whether there is a continuing case for regulation of media; old and new. It also considers the type of regulatory approaches which might best fit the emerging media landscape. Where appropriate, the subject also makes use of a comparative analysis with particular reference to the United Kingdom, the European Union, and the United States.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78178 Telecommunications Law and Regulations**  
6cp  
Postgraduate  
Telecommunications Law and Regulations provides an introduction to the law and regulation governing the provision of communications services and the operation of communications networks in Australia by companies such as Telstra, Optus, Vodafone and NBN Co, the entity responsible for building and operating the Government’s promised super fast National Broadband Network. The subject explores the policy objectives behind the rules and the regulatory framework developed to achieve those goals.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78179 Telecommunications Law and Regulations**  
8cp  
Requisites: 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.  
Postgraduate  
Telecommunications Law and Regulations provides an introduction to the law and regulation governing the provision of communications services and the operation of communications networks in Australia by companies such as Telstra, Optus, Vodafone and NBN Co, the entity responsible for building and operating the Government’s promised super fast National Broadband Network. The subject explores the policy objectives behind the rules and the regulatory framework developed to achieve those goals.  

**Typical availability**  
Autumn semester, City campus  
Spring semester, City campus  

**78180 Converging Media Industries: Regulatory Challenges**  
6cp  
Postgraduate  
Traditional approaches to broadcasting regulation are under threat as the media landscape changes. No longer is it possible to divide neatly the sector into print, television, and radio, and regulate accordingly. New forms of media delivery are changing not only how we access content but the very nature of the content. These changes produce
regulatory inconsistencies and vacuums, and challenge traditional assumptions about broadcasting regulation. Interactive media, user-generated content and social networking sites distort traditional media roles and blur the lines between public and private space.

This subject considers the variety of regulatory models and approaches used in media regulation and examines whether there is a continuing case for regulation of media; old and new. It also considers the impact of regulatory approaches which might best fit the emerging media landscape. Where appropriate, the subject also makes use of a comparative analysis with particular reference to the United Kingdom, the European Union, and the United States.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78184 Intellectual Property: Law and Policy
6cp
Postgraduate

This subject provides a comprehensive, in-depth and engaging examination of the legal principles of intellectual property (IP) law and the policy issues which inform the development of this law in Australia. It is designed as an introductory subject for graduates, practicing lawyers and students completing their first law degrees.

Each class considers a different form of intellectual property including copyright; designs; patent and trade marks law; passing-off and related actions; moral rights and performer’s protection; as well as a consideration of the proposed protection indigenous cultural property.

In addition, this subject touches on how to deal in IP, globalisation of IP and emerging issues in IP.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78185 Intellectual Property: Law and Policy
8cp

Requisite(s): 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Postgraduate

This subject provides an introduction and overview of the legal principles of intellectual property law and the policy issues which inform the development of this law in Australia. It is designed as an introductory survey subject for graduates, practicing lawyers and students completing their first law degrees. Classes consider the historical development of intellectual property subject matters, the international framework setting standards including the WIPO, WTO, and AUSFTA and the different forms of intellectual property including copyright, designs, patent, plant breeders protection, trade marks law, passing-off and related actions, moral rights and performers protection.

Typical availability
Autumn semester, City campus
Spring semester, City campus

78186 Intellectual Property and Traditional Knowledge
6cp

Requisite(s): 77905c Preparing for Intellectual Property Practice

These requisites may not apply to students in certain courses. See access conditions.

Postgraduate

This subject considers the nature of traditional knowledge, how intellectual property in this area is protected under the Australian legal framework, and the development of strategies for its protection. The subject includes an overview of the international treaty framework, relevant Australian legislation and concerns for Australian Indigenous peoples such as appropriation of Indigenous arts and culture, language, spirituality, biodiversity, biotechnology, medicinal knowledge, film and music.

Typical availability
Autumn semester, City campus

78187 Intellectual Property and Traditional Knowledge
8cp

Requisite(s): 78100c Postgraduate Legal Research

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject

Postgraduate

This subject considers the nature of traditional knowledge, how intellectual property in this area is protected under the Australian legal framework, and the development of strategies for its protection. The subject includes an overview of the international treaty framework, relevant Australian legislation and concerns for Australian Indigenous peoples such as appropriation of Indigenous arts and culture, language, spirituality, biodiversity, biotechnology, medicinal knowledge, film and music.
78188 Intellectual Property Commercialisation
6cp
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers much of the law and some of the business and economics of buying, selling and licensing intellectual property (IP). IP is a broad field, including patents, trade secrets, copyrights, semiconductor chip protection, trademarks, trade dress, Internet domain names, and rights of publicity.
Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition). It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition). This subject covers much of the law and some of the business and economics of buying, selling and licensing intellectual property (IP). IP is a broad field, including patents, trade secrets, copyrights, semiconductor chip protection, trademarks, trade dress, Internet domain names, and rights of publicity.
Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition). Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition). Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition). Licensing of intellectual property takes many different forms in different types of businesses. Research and manufacturing businesses typically buy, sell and license intellectual property (IP), patents or must be licensed and sometimes is sold (for example, in a merger or acquisition).
This subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition). The subject discusses most, if not all, major types of businesses and their practices in buying, selling and licensing IP. It also touches or must be licensed and sometimes is sold (for example, in a merger or acquisition).

78190 Patent Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject
Postgraduate
This subject provides an understanding of the principles of patents and the patent system in Australia. Topics covered include subject matter, section 40 of the Patents Act 1990 (specifications), infringement, inventorship, ownership and breach of confidence. Patents have been the subject of much controversy in recent times. Biotechnology challenges our traditional distinction between nature and invention; the health demands of developing countries come into conflict with the private interest of patent owners; the use of traditional knowledge of indigenous communities in biodiversity processes can complicate the availability of patent protection; US pharmaceutical companies demand a greater role in determining what drugs should be available under Australia's Pharmaceutical Benefits Scheme; the computer software industry demands patent protection to supplement their rights in copyright; and in a growing number of cases patents can be granted for 'business methods'. In this subject, students are introduced to the law of patents - what are patentable subject matter, what are the threshold requirements of patentability, what level of disclosure is required to justify the grant of the patentee's monopoly rights, the rights of the patent holder, exploitation of patent rights, and actions for infringement. In addition, special issues relating to biotechnology patents and the international context in which Australia's patent law operates are considered. There is some attention to plant varieties rights and the use of the action for breach of confidence to protect trade secrets.

78191 Patent Systems
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78190 Patent Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject
Postgraduate
The subject is designed to equip students with knowledge and skills appropriate to representing the interests of a client in the prosecution and maintenance of patent applications - including advising on the desirability of seeking patent protection and provision of alternative protection in Australia and other countries. Topics covered include types of patent applications; patents and the international context in which Australia's patent law operates; amending patent applications; opposition; re-examination; the maintenance of patents; and patent applications; expiration of terms; assignment; extension of terms; assignment; extension of terms; revocation; treaties and conventions including the Patent Cooperation Treaty (PCT), the Paris Convention and the Budapest Treaty; searching;
assignment; licensing; compulsory licenses; Crown use; restrictions on exploitation; circuit layout legislation and practice; plant protection legislation and practice; patentability in other countries (particularly with reference to New Zealand, the United States, European Union, People’s Republic of China, Japan); and petty patents.

78192 Trade Marks Law
8cp; offered either by distance, requiring no attendance, or on-campus
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject provides an understanding of the principles of trade marks and the trade mark system in Australia. Topics covered include passing off and unfair competition, registrability issues, comparison of trade marks and assessment of deceptive similarity, ownership and authorship of trade marks, requirements of use in relation to trade marks, grounds of opposition, and infringement and post-registration maintenance of trade marks.

78193 Trade Marks Practice
8cp
Requisite(s): 78100c Postgraduate Legal Research AND 78192c Trade Marks Law
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject
Postgraduate
This subject gives students an understanding of the practice and procedure in respect of trademarks in Australia and abroad, covering the filing of trademark applications and the examination, opposition and registration of them, as well as removal and cancellation. The subject also provides an overview of international treaties and conventions and of the trademark practice and procedure in foreign jurisdictions such as New Zealand, Canada, the United States, various South Pacific countries, selected countries of Asia and the European Union.

78194 Designs Law and Practice
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject
Postgraduate
This subject concentrates on the ability to advise and to handle the interests of a client in prosecution and maintenance of a design application, including advice on the desirability of seeking design protection and provision of alternative protection in Australia and overseas. Topics covered include registrability, newness, registration procedure, maintenance, office practice, third-party objection, infringement, expunction, copyright and international aspects of design practice.

78195 Copyright Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Recommended studies: students who have previously not completed a basic intellectual property subject are recommended to enrol in 78185 Intellectual Property: Law and Policy before this subject
Postgraduate
This subject covers the principles of copyright, the development of case law and the structure and ambit of the legislation. Students are required to develop a good working knowledge of the Copyright Act 1968 (as amended), and associated regulations, and to have a sound knowledge of relevant case law.

78196 Insurance Law
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
This subject looks at insurance from the perspective of a business buying insurance. It begins with risk management and, in the context of the function of insurance in risk management, considers the design of an insurance program and how business buys and sells insurance. The subject looks at the public regulatory regime governing the insurance industry, including products and markets. The approach examines in some detail the private law principles governing the relationship between insurer and insured, in particular the pre-contract matters of disclosure, terms on the risk and claims, and the structure and documentation of a typical policy. There is a focus on the main insurance principles: duty of utmost good faith, insurable interest, indemnity, subrogation, risk, non-disclosure, misrepresentation and cancellation of cover. There is material on the resolution of insurance disputes. The role of intermediaries, such as agents and brokers, is also examined. The subject concludes with case studies on the insurance market in crisis.

78197 Corporate Finance Transactions 1
5cp
Postgraduate
One of the key characteristics of the business law practice is the wide range of relevant legal disciplines. A single finance transaction may involve subject matter considerations found in multiple law school courses. At the same time, the pace of practice is such as not to permit a leisurely review of each area. It is impossible to identify all the bodies of law which might pertain to business transactions generally. It is possible, however, to focus on the areas of paramount importance, and to develop legal skills of general applicability, for lawyers engaged in corporate finance.
This subject covers advanced contract law and advanced corporation/ company law, whereby providing a set of skills characteristic of good ‘lawying’. In addition to providing these knowledge components, the subject develops the legal skills necessary to memorialise a corporate finance transaction in language which achieves the desired results.
The subject is designed to develop an understanding of:
• how to analyse a client’s need for capital, the type of capital infusion called for and potential sources
• how that analysis informs and governs the drafting of the relevant documents
• some of the substantive law relevant to corporate finance
• approaches to some of the problems posed by a corporate finance transaction and, particularly, by the economics of the proposed deal, and
• the way in which a transaction germinates from financial need to executed documentation.
Among the methods utilised to achieve these ends are: a drafting exercise, and a related negotiating exercise.

78198 Corporate Finance Transactions 1
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
One of the key characteristics of the business law practice is the wide range of relevant legal disciplines. A single finance transaction may involve subject matter considerations found in multiple law school courses. At the same time, the pace of practice is such as not to permit a leisurely review of each area. It is impossible to identify all the bodies of law which might pertain to business transactions generally. It is possible, however, to focus on the areas of paramount importance, and to develop legal skills of general applicability, for lawyers engaged in corporate finance.
This subject covers advanced contract law and advanced corporation/ company law, whereby providing a set of skills characteristic of good ‘lawying’. In addition to providing these knowledge components, the subject develops the legal skills necessary to memorialise a corporate finance transaction in language which achieves the desired results.

Access conditions are available in the individual subject descriptions in the online handbook.
The subject is designed to develop an understanding of:
- how to analyse a client's need for capital, the type of capital infusion called for and potential sources
- how that analysis informs and governs the drafting of the relevant documents
- some of the substantive law relevant to corporate finance
- approaches to some of the problems posed by a corporate finance transaction and, particularly, by the economics of the proposed deal, and
- the way in which a transaction germinates from financial need to executed documentation.

Among the methods utilised to achieve these ends are: a drafting exercise, and a related negotiating exercise.

78199 Corporate Finance Transactions 2
6cp
Postgraduate
Requisite(s): 78197 Corporate Finance Transactions 1

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

One of the key characteristics of the business law practice is the wide range of relevant legal disciplines. A single finance transaction may involve subject matter considerations found in multiple law school courses. At the same time, the pace of practice is such as not to permit a leisurely review of each area. It is impossible to identify all the bodies of law which might pertain to business transactions generally. It is possible, however, to focus on the areas of paramount importance, and to develop legal skills of general applicability for lawyers engaged in corporate finance (CF).

This subject covers advanced contract law, advanced corporations/company law, and basic corporate finance principles, thereby providing a set of skills characteristic of good investment banking and good ‘lawyering’. In addition to providing these knowledge components, the subject develops the legal skills necessary to memorialise a CF transaction in language which achieves the desired results. The subject also covers aspects, vital to a CF lawyer, of the global financial crisis (GFC) and of ethical issues which face the CF lawyer.

The subject is designed to develop an understanding of:
- how to analyse a client's need for capital, the type of capital infusion called for and potential sources
- how that analysis informs and governs the drafting of the relevant documents
- some of the substantive law relevant to CF
- approaches to some of the problems posed by a CF transaction and, particularly, by the economics of the proposed deal
- some tools of financial analysis, and
- the way in which a transaction germinates from financial need to executed documentation.

Among the methods utilised to achieve these ends are: a drafting exercise, and a related negotiating exercise. There is a mid-term examination of the material covered in the syllabus in Article VIII, Financial Analysis.

78201 International Development Law
6cp
Postgraduate

This subject aims at training international aid workers, NGO and international aid agency personnel and specialist legal practitioners for development. The subject focuses on a systematic study and analysis of the principles of development in developing, emerging, post-conflict and transitional economies. It examines the right to development and the role of international development assistance, legal aspects of international aid management, good governance and public accountability, principles of capacity development, human rights and community justice issues in the development process.

The subject explores the normative goals of economic development and the role of international law in facilitating development. The foundation of the subject is that international law as reflected in human rights and a strong commitment to international standards for the rule of law is an essential pre-condition for economic and social development and for achieving human security.

The subject is practical in orientation. However, it also involves studies and critical appreciation of social, gender and moral theories that underpin concepts in international law and impact on development.

78202 International Development Law
8cp
Postgraduate

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

One of the key characteristics of the business law practice is the wide range of relevant legal disciplines. A single finance transaction may involve subject matter considerations found in multiple law school courses. At the same time, the pace of practice is such as not to permit a leisurely review of each area. It is impossible to identify all the bodies of law which might pertain to business transactions generally. It is possible, however, to focus on the areas of paramount importance, and to develop legal skills of general applicability for lawyers engaged in corporate finance (CF).

This subject covers advanced contract law, advanced corporations/company law, and basic corporate finance principles, thereby providing a set of skills characteristic of good investment banking and good ‘lawyering’. In addition to providing these knowledge components, the subject develops the legal skills necessary to memorialise a CF transaction in language which achieves the desired results. The subject also covers aspects, vital to a CF lawyer, of the global financial crisis (GFC) and of ethical issues which face the CF lawyer.

The subject is designed to develop an understanding of:
- how to analyse a client's need for capital, the type of capital infusion called for and potential sources
- how that analysis informs and governs the drafting of the relevant documents
- some of the substantive law relevant to CF
- approaches to some of the problems posed by a CF transaction and, particularly, by the economics of the proposed deal
- some tools of financial analysis, and
- the way in which a transaction germinates from financial need to executed documentation.

Among the methods utilised to achieve these ends are: a drafting exercise, and a related negotiating exercise. There is a mid-term examination of the material covered in the syllabus in Article VIII, Financial Analysis.

78203 Communications and Intellectual Property Law Overview
8cp
Postgraduate

This foundational subject provides non-law graduates with an overview of the key legal areas relevant to the communications law program. It introduces the key current legal principles and topics generally covered by the areas of media law, broadcasting and telecommunications law, intellectual property law, and providing students with a foundational knowledge to enable them to pursue the more specialised subjects offered in the program.
The subject is compulsory for non-law graduates and recommended for law graduates who do not have a background in media, communications, or IP law. Law graduates considering enrolling in this subject who are not enrolled in the Master of Communications Law (CO4242) (see page 365) or Graduate Certificate in Communications Law (C11217) (see page 461) are advised that this subject is not suitable if they already have a background in media, communications, and/or IP law. The subject also includes a component on the Australian legal system and legal method designed for non-law graduates.

**78204 Legal Perspectives on the Internet**

8cp  
Requisite(s): 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

This subject covers a range of legal issues which face challenges because of the internet’s ubiquity and global reach. It enables students to see the interplay of media law, communications law, and intellectual property as legal and regulatory solutions are sought for online situations and the impact on freedom of expression.

**78205 Regulatory Issues in the Broadband Environment**

8cp  
Requisite(s): 78100c Postgraduate Legal Research OR 78203c Communications and Intellectual Property Law Overview  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

This subject provides students with an awareness of the legal and regulatory problems which may arise as broadband, and in Australia, the National Broadband Network, become more firmly established as a viable alternative platform for traditional media-type content. The subject is dynamic so that topics are built around current case-studies or contemporary issues. Each case study or issue provides an opportunity for students to assess the legal implications posed and to reflect on potential solutions. At each issue, the subject examines the impact it would have on established media and communications, and/or intellectual property, policy and legal principles.

**78206 International Organisations**

6cp  
Requisite(s): 70115 Perspectives on Law AND 70120 Legal Method and Research OR 77885c Legal Process and Legal Research OR 60 credit points of completed study in C04148 Master of Law and Legal Practice  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

The proliferation of intergovernmental and non-governmental organisations is one indicator of the internationalisation of social life and the interdependence of states in the early 21st century. This subject examines the principal legal issues concerning organisations composed of states. These include the legal status and powers of organisations, membership and participation, norm-creation, dispute settlement, enforcement of decisions, peace and security activities and finally the organisations’ privileges and immunities as well as their legal status and powers under national law.

At the same time, the subject addresses real-world problems such as the creation of international criminal courts, the ‘succession’ of Russia to the USSR’s seat on the UN Security Council, the response to the break-up of Yugoslavia, the jurisdictional issues in the Lockerbie-case, the possibility of judicial review of acts of the UN Security Council, the success of WTO dispute settlement, NATO action against Serbia in 1999, the military intervention in Afghanistan and Iraq in the aftermath of 9/11 and the UN administration of Kosovo and East Timor.

Primary consideration is given to the development of the United Nations. Other universal organisations such as ILO, the Bretton Woods institutions, WTO or ICAO, as well as regional ones such as the Council of Europe, the EU and others are also dealt with. This subject does not try to provide a comprehensive picture of all of these organisations, rather it aims at helping students understand the common legal problems faced by international institutions.

**78207 International Organisations**

8cp  
Requisite(s): 78100c Postgraduate Legal Research  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

The proliferation of intergovernmental and non-governmental organisations is one indicator of the internationalisation of social life and the interdependence of states in the early 21st century. This subject examines the principal legal issues concerning organisations composed of states. These include the legal status and powers of organisations, membership and participation, norm-creation, dispute settlement, enforcement of decisions, peace and security activities and finally the organisations’ privileges and immunities as well as their legal status and powers under national law.

At the same time, the subject addresses real-world problems such as the creation of international criminal courts, the ‘succession’ of Russia to the USSR’s seat on the UN Security Council, the response to the break-up of Yugoslavia, the jurisdictional issues in the Lockerbie-case, the possibility of judicial review of acts of the UN Security Council, the success of WTO dispute settlement, NATO action against Serbia in 1999, the military intervention in Afghanistan and Iraq in the aftermath of 9/11 and the UN administration of Kosovo and East Timor.

Primary consideration is given to the development of the United Nations. Other universal organisations such as ILO, the Bretton Woods institutions, WTO or ICAO, as well as regional ones such as the Council of Europe, the EU and others are also dealt with. This subject does not try to provide a comprehensive picture of all of these organisations, rather it aims at helping students understand the common legal problems faced by international institutions.

**78208 Taxation of Commercial Enterprises**

8cp  
Requisite(s): 78100c Postgraduate Legal Research  
These requisites may not apply to students in certain courses.  
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These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

The Australian legal framework allows for commercial enterprises to be structured in a number of ways. Correspondingly, the Australian taxation system provides for different taxation treatment for different commercial enterprise structures. This subject assumes that students have undertaken at least an undergraduate taxation subject, with the content in this subject building upon that knowledge. The subject examines the taxation provisions applying to the most common of the commercial enterprise structures, being sole traders, companies, partnerships and trusts. The subject additionally examines the restrictions and limitations that operate to prevent taxpayers exploiting these different tax treatments to avoid a taxation liability.

**78209 Taxation of Commercial Enterprises**

6cp  
Requisite(s): 76212 Revenue Law OR 60 credit points of completed study in C04148 Master of Law and Legal Practice  
These requisites may not apply to students in certain courses.  
There are also course requisites for this subject. See access conditions.

The Australian legal framework allows for commercial enterprises to be structured in a number of ways. Correspondingly, the Australian taxation system provides for different taxation treatment for different commercial enterprise structures. This subject assumes that students have undertaken at least an undergraduate taxation subject, with the content in this subject building upon that knowledge. The subject examines the taxation provisions applying to the most common of the commercial enterprise structures, being sole traders, companies, partnerships and trusts. The subject additionally examines the restrictions and limitations that operate to prevent taxpayers exploiting these different tax treatments to avoid a taxation liability.

**78210 Law and Literature**

5cp  
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice  
These requisites may not apply to students in certain courses. See access conditions.

This subject approaches important questions from jurisprudence, philosophy and legal theory through a consideration of law’s relationship to literature. Lectures relate key cases of the last hundred years to key works of literature, indicating ways in which we might
think of the relationship between law and literature. Students engage in a rigorous process of reading and discussion that includes some of the most fascinating and thought provoking literary works of the last century, including works by Franz Kafka, Toni Morrison, Truman Capote and Harper Lee. Using these texts students think about questions of justice related to central problems and traumas of recent times: the Holocaust, the death penalty, slavery and the Stolen Generations.

Students develop important skills in critical thinking and writing as part of these investigations, and their own deep responses to the following questions. What is justice, and how do law and literature provide different answers to justice? What is the law’s relationship to violence? How does the law regulate the individual’s relationship to their community? How are moral questions addressed by the law? In what ways can it be said that literature judges the law, and what might we do with these judgments?

Postgraduate students focus on a number of modules within the overall subject structure, but may attend and participate in all modules.

78211 Law and Literature
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject approaches important questions from jurisprudence, philosophy and legal theory through a consideration of law’s relationship to literature. Lectures relate key cases of the last hundred years to key works of literature, indicating ways in which we might think of the relationship between law and literature. Students engage in a rigorous process of reading and discussion that includes some of the most fascinating and thought provoking literary works of the last century, including works by Franz Kafka, Toni Morrison, Truman Capote and Harper Lee. Using these texts, students think about questions of justice related to central problems and traumas of recent times: the Holocaust, the death penalty, slavery and the Stolen Generations.

Students develop important skills in critical thinking and writing as part of these investigations, and their own deep responses to the following questions. What is justice, and how do law and literature provide different answers to justice? What is the law’s relationship to violence? How does the law regulate the individual’s relationship to their community? How are moral questions addressed by the law? In what ways can it be said that literature judges the law, and what might we do with these judgments?

Postgraduate students focus on a number of modules within the overall subject structure, but may attend and participate in all modules.

78212 Communications and Technology: A Primer
6cp
Requisite(s): 770115 Perspectives on Law AND 70120 Legal Method and Research OR 77885 Legal Process and Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject provides an interdisciplinary overview of key aspects of the broader environment affecting policy and regulation of communications and technology. The subject is designed to:

• equip students with an understanding of the economic, security, legal and technological aspects which are integral to the development of policy and regulation
• give students the confidence to undertake other aspects of the elective program, and
• enhance their professional knowledge and effectiveness.

The subject draws upon expertise across a range of disciplines and is suitable for students from legal and other disciplinary backgrounds. Students are encouraged to bring their own professional and disciplinary experience to the discussions.

The subject is delivered by leading practitioners and policy advisors within the area.
The subject covers:

- an overview of international competition law and policy, including the reasons for examining competition law in a global context, and major theories and strategies for harmonising and enforcing competition laws internationally. Both convergence and divergence approaches are introduced.
- the major international bodies and treaties which deal with international competition rule-making and law enforcement, including existing and ongoing international efforts to cooperate in competition law and policy. Both advantages and limits of these authorities and international regulations are examined.
- a comparative overview of the principles underlying competition regulation and policy in the United States, Europe, Australia, Japan and China, including the economic and political backgrounds of different jurisdictions and the substantive laws and policies of each country. The main fields of competition law raising international concern are examined, such as: concentration; cartel and other horizontal restraints; vertical restraints; and other anti-competitive practices.
- some current issues on international competition law, including: the nexus of intellectual property and competition; external enforcement (cartel); the interface between competition and trade policy; including national security / interest review regimes; and strategies for establishing a more balanced multi-level competition law system (moves to uniformity of competition laws internationally).

78217 Competition Law in a Global Context

8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject provides a comprehensive and in-depth examination of the economic and legal principles of international competition law and policy, as well as the current enforcement regime of competition laws internationally. A comparative overview of the principles underlying competition regulation and policy in the United States, Europe, Australia, Japan and China is provided. Current issues and recent cases on global competition lawmaking and enforcement are also examined. The instructor does not assume students have had previous exposure to competition law in any of these jurisdictions, or to the study of economics.

The subject covers:

- an overview of international competition law and policy, including the reasons for examining competition law in a global context, and major theories and strategies for harmonising and enforcing competition laws internationally. Both convergence and divergence approaches are introduced.
- the major international bodies and treaties which deal with international competition rule-making and law enforcement, including existing and ongoing international efforts to cooperate in competition law and policy. Both advantages and limits of these authorities and international regulations are examined.
- a comparative overview of the principles underlying competition regulation and policy in the United States, Europe, Australia, Japan and China, including the economic and political backgrounds of different jurisdictions and the substantive laws and policies of each country. The main fields of competition law raising international concern are examined, such as: concentration; cartel and other horizontal restraints; vertical restraints; and other anti-competitive practices.
- some current issues on international competition law, including: the nexus of intellectual property and competition; external enforcement (cartel); the interface between competition and trade policy; including national security / interest review regimes; and strategies for establishing a more balanced multi-level competition law system (moves to uniformity of competition laws internationally).

78219 Animal Law and Policy in Australia

8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject examines the effectiveness of existing regulation in Australia with respect to animal welfare. Topics covered include: consideration of animals in the context of morality, science and the law; the historical development of animal law as well as an overview of animal regulation in Australia; the prevention of cruelty; and the legal status of animals. The material is presented against the backdrop of the animal welfare and rights debate, encouraging students to consider and evaluate whether the current regime fosters accountability and ethical standards. In order to appraise Australia’s regime more effectively, the subject also includes consideration of two topics at international and comparative levels. The first relates to advances in animal welfare introduced by the European Union, and the second relates to the impact on animal welfare by the rules of the international trade law regime, as typified by the World Trade Organization. The subject is designed to provide students with a sound understanding of the fundamentals of animal law including its application to companion animals, farm animals, wild animals and animals in laboratories.

78220 Commercial Equity

6cp
Requisite(s): [78101 Postgraduate Legal Research OR (70115 Perspectives on Law AND 70120 Legal Method and Research)]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject considers the interplay between legal issues that commonly arise during complex commercial disputes. The subject examines the role that equitable doctrines, particularly fiduciary obligations, play in common commercial situations. The reach of equitable doctrines and their relationship with contractual, tortious and statutory duties are considered within a series of commercial scenarios involving company executives, professional agents and advisers, commercial trusts, joint ventures and partnerships. The subject discusses the role of commercial law in a practical and realistic commercial context.
78221 Commercial Equity
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject considers the interplay between legal issues that commonly arise during complex commercial disputes. The subject examines the role that equitable doctrines, particularly fiduciary obligations, play in common commercial situations. The reach of equitable doctrines and their relationship with contractual, tortious and statutory duties are considered within a series of commercial scenarios involving company executives, professional agents and advisers, commercial trusts, joint ventures and partnerships. The subject discusses the role of commercial law in a practical and realistic commercial context.

78222 Law of Slavery and Human Trafficking
6cp
Requisite(s): [78101 Postgraduate Legal Research OR 77885 Legal Process and Legal Research] OR [70115 Perspectives on Law AND 70120 Legal Method and Research]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Slavery and human trafficking are transnational crimes. This subject comprehensively explains and evaluates international and domestic responses to slavery and human trafficking within an international law and human rights framework. While the subject addresses international law, it does so with an appreciation of the practical application of the law. The subject draws students to a critical evaluation of the state's responsibility to protect and support, and develop effective criminal justice responses. Areas covered include: the legal definitions; the international legal framework; the intersection between migrant worker exploitation, slavery and trafficking; the gender implications of slavery; trafficking and refugee law; and trafficking as a crime against humanity. State responsibility at international law is reviewed to develop a sound knowledge of the state's obligations to protect and support, and develop effective criminal justice responses. An effective domestic and international law and human rights framework. While the subject draws students to a critical evaluation of the state's responsibility to protect and support, and develop effective criminal justice responses. Areas covered include: the legal definitions; the international legal framework; the intersection between migrant worker exploitation, slavery and trafficking; the gender implications of slavery; trafficking and refugee law; and trafficking as a crime against humanity. State responsibility at international law is reviewed to develop a sound knowledge of the state's obligations to protect and support, and as well as to promote the application of effective remedies. An effective domestic and international criminal justice response is critical in the development of a framework to prevent trafficking and ensure prosecution of transnational crimes. The dimension of slavery and trafficking – the link between such transnational crimes, economic opportunities, substandard working conditions and migration – is explored. Vulnerability to trafficking, the issues of demand and the supply chain, and corruption are addressed, as well as compliance standards, monitoring mechanisms and the role of civil society. Finally, the course concludes with consideration of a body of international literature which is critical to the implementation of anti-trafficking measures.

At the end of the course, students are expected to have a deep understanding of the principles of international law and their application within the Australian domestic context. Students also gain sophisticated insight and understanding of the application of international law through a comprehensive evaluation of selected areas of law.

78225 Environmental and Sustainable Development Law of China
6cp
Requisite(s): [78101 Postgraduate Legal Research OR 77885 Legal Process and Legal Research] OR [70115 Perspectives on Law AND 70120 Legal Method and Research]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
This subject provides a snapshot of Chinese law through an environmental lens. In particular, the challenge of legislating and implementing environmental and sustainable development laws in the context of the world's powerhouse that is the Chinese economy and whether it is possible to balance what could be considered irreconcilable differences. In turn, do food and energy security override environmental concerns or are they in step? In our examination, we review the legal and constitutional basis of Chinese law including the relationship between Beijing and the provinces; the role of the courts at both the national and provincial level; and the role of the Communist Party of China. The subject also examines China's extensive environmental legislation, the important role of environmental NGOs and the increasing importance of corporate social responsibility. There is an assessment of the role of international environmental conventions and their implementation in China including the environmental impact of China's membership of the World Trade Organization. Finally we return to the underlying theme: are effective laws on the environment and sustainable development possible in the context of an economy committed to rapid economic development?
78226 Environmental and Sustainable Development Law of China
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject provides a snapshot of Chinese law through an environmental lens. In particular, the challenge of legislating and implementing environmental and sustainable development laws in the context of the powerhouse that is the Chinese economy and whether it is possible to balance what could be considered irreconcilable differences. In turn, do food and energy security override environmental concerns or are they in step? In our examination, we review the legal and constitutional basis of Chinese law including the relationship between Beijing and the provinces; the role of the courts at both the national and provincial level; and the role of the Communist Party of China.

The subject also examines China’s extensive environmental legislation, the important role of environmental NGOs and the increasing importance of corporate social responsibility. There is an assessment of the role of international environmental conventions and their implementation in China including the environmental impact of China’s membership of the World Trade Organization. Finally we return to the underlying theme: are effective laws on the environment and sustainable development possible in the context of an economy committed to rapid economic development?

78227 Financial Services Law and Compliance in Australia
8cp
Requisite(s): [78101 Postgraduate Legal Research OR (70115 Perspectives on Law AND 70120 Legal Method and Research)]
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Financial services are one of the fastest growing sectors of the Australian economy. Following an extensive review, Australia has put in place an overarching system for regulating all financial services, replacing a system that was based on separate regulation of products in individual industries. This is an essential subject to understand this new regime, focusing on the implications of the new system for retail clients as financial citizens, and addressing the regulatory structure and legislative framework, including the new regulatory bodies. Licensing requirements for entering the financial services market and the new obligations for marketing or offering financial services to the public are also examined.

On completion of this subject, students should have developed an understanding of the law governing the regulation of financial services transactions; the effect of financial services law and other related legislation on particular financial services issues; and particular aspects of financial services law in depth.

78228 Financial Services Law and Compliance in Australia
8cp
Requisite(s): 78100c Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

Financial services are one of the fastest growing sectors of the Australian economy. Following an extensive review, Australia has put in place an overarching system for regulating all financial services, replacing a system that was based on separate regulation of products in individual industries. This is an essential subject to understand this new regime, focusing on the implications of the new system for retail clients as financial citizens, and addressing the regulatory structure and legislative framework, including the new regulatory bodies. Licensing requirements for entering the financial services market and the new obligations for marketing or offering financial services to the public are also examined.

On completion of this subject, students should have developed an understanding of the law governing the regulation of financial services transactions; the effect of financial services law and other related legislation on particular financial services issues; and particular aspects of financial services law in depth.

78229 Disability and the Law
8cp
Requisite(s): 78101 Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject explores disability and impairment as a legal category. Students are introduced to the various competing models of disability including: the medical model, the social construction model, the human rights model and bioethical, feminist and postmodern approaches to disability. In so doing, the subject takes an interdisciplinary and international comparative approach to conceptions and theories of disability and impairment. Students examine the practical implications of these models for the construction of legal rights and responsibilities with respect to persons with disabilities in a number of key areas of law. These include health law (tort law, criminal law, international law and anti-discrimination law). Specific issues examined include: treatment-limiting decisions for newborns, constraints on reproductive decision making, abortion for disability, end of life decision making; the therapy / enhancement distinction and body modification, the UN Declaration of Human Rights, the UN Declaration of the Rights of Disabled Persons and various state and federal anti-disability legislation. Key issues that students need to examine are the concepts of normal and disabled, healthy and diseased and able-bodied and impaired. This subject examines and evaluates how law can best achieve the goals of social justice and equality for individuals with disabilities.

78230 Disability and the Law
8cp
Requisite(s): 78100 Postgraduate Legal Research
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject explores disability and impairment as a legal category. Students are introduced to the various competing models of disability including: the medical model, the social construction model, the human rights model and bioethical, feminist and postmodern approaches to disability. In so doing, the subject takes an interdisciplinary and international comparative approach to conceptions and theories of disability and impairment. Students examine the practical implications of these models for the construction of legal rights and responsibilities with respect to persons with disabilities in a number of key areas of law. These include health law (tort law, criminal law, international law and anti-discrimination law). Specific issues examined include: treatment-limiting decisions for newborns, constraints on reproductive decision making, abortion for disability, end of life decision making; the therapy / enhancement distinction and body modification, the UN Declaration of Human Rights, the UN Declaration of the Rights of Disabled Persons and various state and federal anti-disability legislation. Key issues that students need to examine are the concepts of normal and disabled, healthy and diseased and able-bodied and impaired. This subject examines and evaluates how law can best achieve the goals of social justice and equality for individuals with disabilities.

78231 Commercial Trade and Transport Law
8cp
Requisite(s): 78100c Postgraduate Legal Research OR 77697c Higher Degree Research Seminar
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.

This subject examines the various sources of law that govern and impact upon the trade and transport of goods to and from Australia. The first part covers commercial maritime law. Topics examined include an overview of international trade processes; Australia’s trade and transport industry; the international and Australian sources of law that regulate commercial shipping activities; maritime law concepts on the ownership, financing and arrest of ships; maritime transport documentation including bills of lading and charter parties; sources of liability; liability limitation; and marine insurance. The second part covers commercial aviation law. Topics examined include the international and Australian sources of law regulating the carriage of goods by air and aviation insurance. The subject concludes by examining recent international developments relating to the multimodal transport of goods.
The subject involves a comparative consideration of the laws across the mining industry such as carbon taxing and trading, and the proposed Mining for dispute resolution. The subject concludes by briefly examining infrastructure access, the regimes for the onshore and offshore extraction of petroleum and gas, and the legal framework for dispute resolution. The subject concludes by briefly examining some of the current issues impacting on the Australian mining industry, such as carbon tax and trading, and the proposed Mining Resources Rent Tax. The subject involves a comparative consideration of the laws across the Australian states and territories and is not limited to New South Wales.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**78232 Mining Law and Regulation**

8cp

Requisite(s): 78100c Postgraduate Legal Research OR 77197c Higher Degree Research Seminar

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject examines the various Australian laws and regulations that govern and impact upon investment in the mining industry. Topics examined include: the history, development and current status of mining regulation in Australia; key mining law concepts – such as the ownership of minerals, mining tenements, mining claims, and the regimes for the payment of royalties; the State and Territory licensing regimes governing mineral exploration and extraction; and the laws governing investment across the life cycle of mining operations (exploration, set up of mining operations, extraction of minerals, the sale and export of minerals, and the sale of mining assets). This includes the relevant provisions of the Corporations Act 2001 (Cwlth) relating to corporate fundraising (Ch 6D) and mergers and acquisitions (Ch 6); the Foreign Acquisitions and Takeovers Act 1975 (Cwlth); the ASX Listing Rules, and the JORC Code for the Reporting of Mineral Resources and Ore Reserves. The subject also examines the use of joint venture structures in the mining industry.

Other issues examined include native title, environmental law considerations, infrastructure access, the regimes for the onshore and offshore extraction of petroleum and gas, and the legal framework for dispute resolution. The subject concludes by briefly examining some of the current issues impacting on the Australian mining industry, such as carbon tax and trading, and the proposed Mining Resources Rent Tax.

The subject involves a comparative consideration of the laws across the Australian states and territories and is not limited to New South Wales.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**78233 International Commercial Arbitration**

8cp

Requisite(s): 78136 Dispute Resolution

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject aims to present a thorough and transnational approach to understanding the key principles and practice of International Commercial Arbitration. The subject examines the importance of arbitration as a process for resolving international commercial disputes; the legislative and institutional context for international commercial arbitration; the conduct of arbitration and the relevant legal and practical issues at each stage of the process, including challenges to and enforcement of arbitral awards. The subject also aims to develop an in-depth knowledge of conducting research in this topic area and development of skills related to legal writing in this field.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**78723 Research Dissertation 1 (Law)**

24cp

For subject description, contact UTS: Law.

**78724 Research Dissertation 2 (Law)**

24cp

Requisite(s): 78723 Research Dissertation 1 (Law)

There are also course requisites for this subject. See access conditions.

For subject description, contact UTS: Law.

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**79004 Environmental Law and Science**

6cp

Requisite(s): 91102 Animal Function and Diversity OR 91123 Biocomplexity

Undergraduate

This subject introduces the science student to concepts of environmental law and the interface between environmental law and science. It establishes a foundation for the subject 79023 Environmental Forensic Law, and it complements subjects in environmental management by setting out the legal framework which supports the management of natural resources at both a federal and state level. This subject also introduces students to legal research.

**Typical availability**

This subject is offered in odd years only.

**79006 Intellectual Property Commercialisation**

6cp

Requisite(s): 79203 Business Law and Ethics OR 70110 Introduction to Law

Undergraduate and Postgraduate

This subject introduces students to, and provides an understanding of, the ways in which the legal system recognises, protects and regulates the exploitation of exclusive rights in certain intangible industrial and intellectual property. The basic structure of the subject covers confidential information, patents, designs, trademarks and trade names and copyright.

**79011 Marketing Law**

6cp

Requisite(s): 79203 Business Law and Ethics OR 70110 Introduction to Law

Undergraduate

The aim of this subject is to provide students with a sound knowledge of the relevant federal and state laws that affect business decisions in the field of marketing and to provide them with an understanding of the complex laws regulating marketing activities. Topics covered include consumer protection, product liability, product safety and standards, intellectual property, the regulation of competition, and risk assessment and compliance strategies.

**79013 Industrial and Labour Law**

6cp

Requisite(s): 79203 Business Law and Ethics OR 70110 Introduction to Law

Undergraduate

Industrial and labour law is an important component of studies in the legal regulation of business. This subject is designed to introduce undergraduate non-law students to Australian industrial and labour law by examining relevant law, policy and theory. In light of the now extensive coverage of the federal labour law system, this subject focuses on that federal system and the underlying common law principles of employer and employee rights and obligations. Students are introduced to the key aspects of industrial and labour laws which govern employers and workers in the workplace. Both practical and theoretical perspectives are offered on the industrial and labour law system as it operates, and is changing, within Australia. The extent to which Australian industrial and labour law meets the aspirations of various labour law policy perspectives is discussed.

**79014 Applied Company Law**

6cp

Undergraduate

This subject is designed to provide students with a sound understanding of fundamental aspects of company law and regulations as they apply to the modern company. Emphasis is given to the way company law has developed to reflect the realities of modern business. The subject introduces the student to legal research.

These requisites may not apply to students in certain courses. These requisites may not apply to students in certain courses.
All necessary concepts and terms are explored in the classroom. Students are encouraged to ask questions whenever the territory seems unfamiliar: discussion in class greatly facilitates individual learning, not only by students but also by the lecturer.

### 79017 Taxation Law

#### 6cp

**Undergraduate**

This subject aims to develop students' conceptual and analytical skills and an appreciation of the Australian tax system. It provides a general analysis of the current tax system and consideration of the many changes it is presently undergoing. The course looks at the Income Tax Assessment Act 1936 and the Income Tax Assessment Act 1997, the Tax Law Reform Project and the New Tax System. Particular concepts to be considered include: income and capital, assessable income, allowable deductions, capital gains tax, fringe benefits tax, goods and services tax, trusts, partnerships, tax accounting, tax planning and anti-avoidance provisions.

### 79018 Advanced Commercial Law

#### 6cp

**Undergraduate**

This is a valuable elective for any business student, especially those working in or wishing to work in a business environment involving interaction with legal advisers and with managers mindful of their legal obligations.

An initial practical focus in this subject is to refresh and enhance students knowledge of contracts and some other areas impacting upon business which were relatively briefly covered in the requisite subject. The rest of the subject is intended to develop knowledge and understanding of areas of law relevant to the modern business environment, such as sale of goods, consumer protection, agency and negotiable instruments.

Students are expected to develop sufficient working understanding of the areas of law to which they are introduced to be able relevantly to advise in the resolution of problems and the planning of strategies. Students are therefore encouraged to ask questions whenever the territory seems unfamiliar: discussion in class greatly facilitates individual learning, not only by students but also by the lecturer.

### 79019 Corporate Environmental Responsibility

#### 6cp

**Undergraduate**

As a field of study, environmental law deals with the rules, relationships, systems and processes by which environmental protection is achieved. The process of environmental protection or sustainability involves multiple stakeholders of which corporations are but one. Corporate environmental responsibility focuses on the role that corporations can play in environmental protection and the responsibilities that are now attaching to corporations to encourage sound environmental practice.

This subject examines environmental law issues as they relate to corporations focusing at the national and state levels but looking at comparative examples where appropriate. It analyses climate change as a driver for corporate environmental change.

Topics covered in the subject include:

- international environmental law as it relates to multinational corporations
- the concept of ecologically sustainable development and the application of the precautionary principle and the principle of intergenerational equity
- criminal and civil liability of directors and corporate officers
- managing risk
- drivers of corporate social responsibility, examining issues of corporate disclosure and reporting and socially responsible investment
- corporate case studies in areas chosen from natural resources management, water or waste management, or pollution
- regulatory and non-regulatory methods of enforcement and responsibility such as environmental audits, due diligence, taxes and tradable permits
- the role of corporations in climate change and greenhouse gas emission reduction.

### 79021 International Aspects of Australian Taxation Law

#### 6cp

**Undergraduate**

These requisites may not apply to students in certain courses. See access conditions.

This subject focuses on aspects of international tax planning. Although topics vary from time to time, they could include an analysis of the concept of residence and source of income, taxation of multinational staff, the taxation of offshore royalties, the operation of double tax arrangements, transfer pricing and anti-avoidance provisions and international tax planning.

### 79022 GST and other Indirect Taxes

#### 6cp

**Undergraduate**

These requisites may not apply to students in certain courses. See access conditions.

This subject examines the goods and services tax (GST) and its effect on the Australian tax system. It analyses overseas experience with other indirect tax systems and examines the basic principles of current indirect taxes in Australia and their practical implications. Besides looking at the implementation of the GST, the subject also looks at the flow-on effect for existing taxes such as payroll tax, sales tax, land tax and stamp duty.

### 79023 Environmental Forensic Law

#### 6cp

**Undergraduate**

These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

Environmental forensic scientists use a range of tools including chemical characterisation to biological markers to determine where environmental pollution has occurred, how it has occurred and who is responsible. This subject examines how this evidence can be used in court and students will learn how to develop the scientific case for identifying the responsible parties.

#### Typical availability

This subject is offered in odd years only.

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Access conditions are available in the individual subject descriptions in the online handbook.
This subject aims to provide an understanding of:
- evidence in legal cases; and the role of advocacy.
- the scope and impact of insolvency on different types of transactions.
- corporate and personal insolvency and is relevant for those seeking a (particularly different types of creditors). The subject covers both includes an overview of different types of insolvency appointments This subject provides an overview of the legal issues relating to the Research
Requisite(s): 70120 Legal Method and Research  OR 70105 Legal 6cp
79030 Legal Aspects of Insolvency 6cp Undergraduate
This subject provides an overview of the legal issues relating to the impact of insolvency on corporations and individuals. The subject includes an overview of different types of insolvency appointments and focuses particularly on the role and powers of insolvency practitioners and the effect of insolvency on key stakeholders (particularly different types of creditors). The subject covers both corporate and personal insolvency and is relevant for those seeking a career in insolvency practice or for those wishing to better understand the scope and impact of insolvency on different types of transactions.

79024 Complex Forensic Cases (Law for Chemistry) 6cp Undergraduate
This subject deals with the legal issues involving forensic science in the field and the impact of scientific evidence on the legal system. Students receive some training in the preparation of reports and in the presentation of evidence in court and participate in a mock trial at the end of the subject in order to consolidate these skills (the mock trial is not assessable).

This subject is studied under the following broad topic areas: introduction to the Australian legal system, criminal law, tort law, Crimes (Forensic Procedures) Act 2000 (NSW), evidence, Uniform Civil Procedure Rules 2005 (NSW), the role of the expert, advocacy and coronial law.

This subject aims to provide an understanding of:
- the legal and practical issues of forensic science
- the impact of forensic science on the legal system, and
- the traditional and emerging admissibility standards involving forensic science evidence.

Typical availability
Autumn semester, City campus

79026 Estate Planning (UG) 6cp Undergraduate
This subject introduces students to the Australian estate planning regime, providing an understanding of the requirements of the regime and the impact of those requirements and opportunities on the financial planning process. The subject takes both a theoretical and practical approach to the area of estate planning.

79027 Retirement Planning (UG) 6cp Undergraduate
This subject introduces students to the Australian retirement planning process, providing an understanding of the requirements of the process and the impact of those requirements and opportunities on financial planning strategies.

79028 Complex Forensic Cases (Law for Biology) 6cp Undergraduate
This subject deals with the legal issues involving forensic science in the field, and the impact of scientific evidence on the legal system. Students receive training in the preparation of reports and in the presentation of evidence in court. Significant cases involving the application, interpretation and admissibility of forensic science in the Australian justice system is examined in detail. The subject is studied under the following broad topic areas: introduction to the legal system; the role of the expert; the rules of evidence; the Crimes (Forensic Procedures) Act 2000 (NSW); the importance of expert evidence in legal cases; and the role of advocacy.

The subject aims to provide an understanding of:
- the legal and practical issues relating to forensic science
- the impact of forensic science on the legal system, and
- the admissibility requirements in relation to forensic science evidence.

79031 Employment and Industrial Law 6cp Postgraduate
This subject is designed to introduce non-law students to the law regulating work in Australia. Employment and industrial law is an important component of studies in the legal regulation of commerce. Students are introduced to the key aspects of employment and industrial laws which determine the rights, entitlements and responsibilities of employers and workers in the workplace. Both practical and theoretical perspectives on the law regulating work are examined. Given extensive legislative activity by the Commonwealth Parliament in the area of work law, the Fair Work Act 2009 (Cwlth) as amended is analysed.

79032 Competition and Consumer Law 6cp Undergraduate
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.

This subject examines the economic and legal principles of competition law (also known as antitrust law or restrictive trade practices law) and deceptive trade practices law in Australia. Competition law is governed by Part IV of the Trade Practices Act 1974 (Cwlth) (the TPA); deceptive trade practices law is dealt with in Part V of the TPA; and the remedial provisions are found in Part VI of the TPA. Competition law covers the economic functioning of markets, market power and competition; the relationship between antitrust-related statute law, common law and economics; the evolution and objectives of Australian competition law and the administration and enforcement of competition law in Australia.

Deceptive trade practices law examines what is trade or commerce; what is misleading or deceptive conduct; silence as misleading or deceptive conduct; promises and predictions as misleading or deceptive conduct; reliance on misleading or deceptive conduct; the assessment of damages for misleading or deceptive conduct and other remedies available under Part VI of the TPA.

79033 Insolvency Administration 6cp Undergraduate
This subject provides students with legal knowledge needed to assist business, concerning the protection and regulation of insolvent individuals and corporations. Students examine the legal procedures involved in insolvency law (such as bankruptcy petitions, lodging proofs of debt and distribution of insolvent estates) as well as the impact of insolvency upon stakeholders such as employees, unsecured creditors, and individual and corporate players. Particular emphasis is placed on the various methods of administering insolvent estates including discussing powers of insolvency administrators, voluntary administration, liquidation and the rights of creditors.

79203 Business Law and Ethics 6cp Undergraduate
This compulsory subject provides a fundamental foundation for all future law subjects in the Bachelor of Business. The subject provides a background knowledge of the Australian legal system and the laws that govern Australian and international commercial relationships. It examines contract and consumer protection as well as laws governing civil liability in a business setting. The content and assessment tasks develop the students’ ability to research answers to legal issues. The subject is taught from a risk management perspective with a focus on avoiding legal pitfalls and solving ethical dilemmas.

79371 Legal Issues in Communications 6cp Undergraduate
This subject introduces students to the legal context of telecommunications and information technology in Australia and internationally, and develops students’ understanding of the interplay between technical, commercial and legal aspects of introducing a new product or service, and in particular how the regulatory structure shapes market opportunities. Topics to be covered include contract law; product liability; professional liability; intellectual property law; patents; privacy; and consumer rights.
946

Access conditions are available in the individual subject descriptions in the online handbook.

79603 International Business Transactions and the Law
6cp
Requisite(s): 79203 Business Law and Ethics OR (76006c: Public International Law AND 70110 Introduction to Law)
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject introduces students to those legal rules which affect traders doing business where there is an international element involved. It focuses on matters relating to the formulation of contracts in international business transactions; the law relating to the international carriage of goods; payment in relation to such transactions; currency matters; the resolution of disputes and the enforcement of judgments where litigation occurs with an international element.

79606 Advanced Taxation Law
6cp
Requisite(s): 79017 Taxation Law
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject builds on the understanding obtained in previous study. It focuses on a deeper analysis in relation to a number of taxation issues including the taxation of companies, trusts and partnerships, further capital gains tax issues, aspects of international taxation, tax administration, and tax planning, with a consideration of anti-avoidance and ethical issues in tax planning.

79708 Contemporary Business Law
6cp
Postgraduate
This subject provides students with an understanding of the legal system and a knowledge of a range of legal topics that are of practical relevance to business law. It provides timely information on recent developments in areas including commercial contracts and trade practices legislation, consumer protection, business structures and intellectual property.

79771 Dispute Resolution
6cp
Requisite(s): 60 credit points of completed study in C04148 Master of Law and Legal Practice
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject is an introduction to the philosophy, theory and practice of an area of increasing importance in all professions, business and government. Dispute resolution processes are now integrated into the adversarial framework as well as being applied to an ever-widening range of private and public situations. This emerging practice of professional dispute resolution both within and outside the legal profession is the framework for the central topics in this subject. The topic areas covered in this subject include:

• an introduction to the theories and philosophy of dispute resolution
• an overview of the development of the range of dispute resolution practice in both the legal system and generally
• an introduction to negotiation and mediation theory
• conflict theory
• the relevance of personal style in dispute resolution processes
• communication theory and skills requisite for dispute resolution processes
• issues of power, culture and participation in dispute resolution processes
• ethics and standards.

The subject is taught in intensive mode with an emphasis on experiential learning. Student assessment focuses on a written research paper on a topic of their choice with a presentation to the class of the essential concepts explored in the research. The focus of this subject is interdisciplinary and draws upon the professional expertise and experience of the class.

Typical availability
Autumn semester, City campus

79794 Legal Issues for Community Managers
6cp
Postgraduate
Topics covered in this subject include: introduction to the legal system; constitutional aspects; the nature of legal rules; the legislative framework for actions against public or community managers (e.g. tort, contract); particular aspects of law relating to public employment; the employment of professionals; aspects of the law concerning legal forms available for community organisations; and the responsibilities of boards of managers and trustees.

80027 Photographic History and Theory
6cp
Core
Undergraduate
This subject introduces methodologies for research and evaluation, usability, appraisal, critical comparison and reflective writing, as relevant to a diversity of disciplines and interdisciplinary areas. The subject equips the student with a wide range of methods suitable for
structuring and thinking critically from a researched context about design, that may range from a theoretical, historical and conceptual research approach to applied, practice-based and project-centred projects. Its content may be oriented towards the student’s successful written and project components of the honours degree.

**Typical availability**
Spring semester, City campus

**80031 Graduation Exhibition**
12cp
Core
Undergraduate

In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.

Occurring in the student’s final semester, the graduation exhibition forms the culmination of the student’s program of study. This provides the opportunity for students to undertake the production of a major work, or series of related works in a collection/series, in addition to documentation of the context, creation and motivation for the work. The production of photographic/designed media outcomes enables students to focus upon a medium or media of preference/specialisation from conception through to public presentation. Such works may take the form of photographic, situated media, mixed modality, collaborative interdisciplinary, sound or music works displayed as performance, installation, exhibition, physical artefacts or spatial environments.

**Typical availability**
Spring semester, City campus

**80032 Pervasive and Convergent Media Research Project**
6cp
Core
Undergraduate

Grounding one’s own creative practice in critical and constructive review of one’s work, the context, philosophies, literature, culture and of ones own and others work, lends gravity and depth to practical artistic and design outcomes. This subject investigates pervasive and convergent media as the vehicle for developing research through documentation and written outcomes. Students who plan to progress in their chosen field or continue their studies have explicit requirements for research skills, critical thinking, review and written expression. This subject is designed to work with existing as well as explore innovative forms of research. While the development of research skills is essential to this subject, assessment outcomes are negotiable, to facilitate both traditional research outcomes as well as practical research projects, underpinned by structured writing/documentation.

**Typical availability**
Spring semester, City campus

**80033 Professional Practice: Photography**
6cp
Option
Undergraduate

This subject introduces students to a variety of views and critiques of professionalism in the field of photography including: the roles and responsibilities of the creative professional; case studies of practice/studios; business management and planning; preparation for and modes of employment; legalities and liabilities; the ethical professional; the client/creative professional relationship; existing and emerging work practices in the industry; the role of professional bodies; exhibiting and licensing. Topics are covered through site visits, guest lectures, workshops and where possible and/or appropriate short-term work experience placements.

**Typical availability**
Spring semester, City campus

**80034 Physical and Tangible Media Interfaces for Design Expression**
6cp
Option
Undergraduate

This subject explores the role of photography in representing entirely fictitious and artificial scenarios. This involves building shots up from scratch in the blank space of the studio where total control of light, composition and arrangement can be managed. Emphasis is placed on pre-shoot conception and art direction and the use of studio facilities to achieve a desired outcome. This subject further explores studio lighting techniques, specifically multi-light set ups using studio flashes. Students are encouraged to use the photographic format/medium of their choice but in consideration of their pre-nominated output media.

**Typical availability**
Spring semester, City campus

**80036 Situated Media Real Time Technology**
6cp
Core
Undergraduate

This subject provides the technical and experimental learning context for students to develop fluency with object-oriented visual programming environments and interfacing, through basic operational, sound and video/image software and the exploration of real-time environments through new technology.

The objective of this subject is to ground students in the capabilities of specific software, encouraging an inventive, exploratory approach to constructivist learning and to help students cultivate fluency and confidence with the basic paradigms of object-oriented and real-time programming processes.

This is done through project-based learning, thorough students’ exploration of techniques and their integration into actual and alternate physical environments for real-time responsiveness and the situating of media.

**Typical availability**
Autumn semester, City campus

**80037 Situated Media Culture and Context**
6cp
Requisite(s): 80027 Photographic History and Theory
Core
Undergraduate

This subject forms an introduction to the study of the history, theory and interpretations of situated media. With particular reference to situated media’s responsiveness to location, cultural, social and physical context, the subject encourages students to reflect upon and communicate its situation and medium. Through lectures and tutorials, students investigate the emerging discourses of sensory anthropology and urbanism, challenging the historic hegemony of vision as well as the cultural influences and impacts of media integration through an examination of the historical approaches taken in works of art, media and design that explore, interpret or challenge their situation and whose impact is governed by the situating of the medium in a particular spatial experience.

**Typical availability**
Spring semester, City campus

**80038 Photographic Intervention**
6cp
Core
Undergraduate

This subject involves an exploration of photography as a means of consciously intervening in and interpreting the social world as a narrative source. This is done through the exploration and photographic interpretation of the spaces and places people create and inhabit and their relationship to them, through the guise of environmental portraiture. Emphasis is placed on the conscious construction of meaning across still image sequences through subtle techniques of art direction and the manipulation of available light sources. This subject introduces the basic principles of digital photography including file formats, image resolution, colour temperature, contrast control, digital workflow practices, and shooting for various digital output media.
The dissertation is a substantive body of written work, designed to complement the independent project component of the honours degree. While its content is determined individually, its fundamental aim is to situate the research area within historical, comparative literature and related works. This is done through the investigation of appropriate methodologies for criticising, comparing and evaluating the medium such as usability evaluation for interaction, aesthetics in photography, etc. Based on the individual students negotiation of the structure of their honours year, student’s proposed aim, philosophy or theoretical context and method for developing the designed outcome of their independent project may interact with or inform the subject of their dissertation.

Typical availability
Autumn semester, City campus

80041 Dissertation
12cp
Core
Undergraduate
This subject explores light as fundamentally plastic, or manipulable, through a combination of studio practice, technical theory and photographic history. The manner in which light can be controlled to create different moods and atmospheres and the impact this has on the communicative aspects of the photograph is a central feature of study. Students further develop their understanding of lighting contrast ratios through the use of a range of ambient and studio flash light sources as well as explore a variety of lighting techniques.

Typical availability
Autumn semester, City campus

80042 Photography and Seeing Light
6cp
Undergraduate
This subject explores the way photographic techniques and lighting can be used and manipulated to transform the photographic representation of the world ‘as it is found’ to one that is pre-conceived. This involves the exploration and manipulation of actual locations and settings as well as an introduction to studio scenario building. Students' photographic interpretation, both of urban space/place and its creation/inhabitation, is understood through the guise of environmental portraiture. Through techniques of art direction and the manipulation of available light sources, students learn how to construct meaning across still image sequences. This subject introduces the principles of camera and darkroom work in black and white photography. Students are introduced to the basic principles of composition, 35mm manual SLR camera functions, film exposure, development and print enlargement.

Typical availability
Spring semester, City campus

80043 Professional Practice: Situated/Interactive Media
6cp
Option
Undergraduate
This subject introduces students to a variety of views and critiques of professionalism in the field of situated media including: the roles and responsibilities of the creative professional; case studies of practice/studios; business management and planning; preparation for and modes of employment; legalities and liabilities; the ethical professional; the client/ creative professional relationship; existing and emerging work practices in the industry; the role of professional bodies; documenting situated media; exhibiting and seeking funding. Topics are covered through site visits, guest lectures, workshops and where possible and/or appropriate short-term work experience placements.

Typical availability
Autumn semester, City campus

80046 Interaction-based Designing
6cp
Core
Undergraduate
This subject focuses on the interaction between people and the technological environment. Design techniques are presented which are based on a firm understanding of human actions, reactions and interactions with technology. Multiple interaction modalities such as the auditory and the visual are explored, as are structured design methods, usability and user-centered design techniques. The subject is a combination of both theoretical and practical applications.

Typical availability
Autumn semester, City campus

80046 Smart Object Studio
12cp
Core
Undergraduate
This studio subject is designed to enable cross-disciplinary collaboration through the examination and development of ‘smart objects’. This could involve for example, the development of playful and intelligent applications, objects with practical and marketable applications, objects with energy awareness, sensing systems or devices designed to adapt to/suit users and their behaviour. Students collaborate to examine the potential for imbuing objects with new audio, visual and mechanical capabilities by transforming the experience of using objects and devices. For the photographer or sound designer, this studio enables a useful fusion of modalities and re-situates passive (unresponsive), static media or time-based (fixed) media in a paradigm of user-centred, dynamic and responsive interaction, by challenging students to re-think and re-invent ways of communicating through physical experience.

Typical availability
Spring semester, City campus

80048 Photographic Manipulation
6cp
Core
Undergraduate
This subject explores contemporary digital imagery with particular emphasis on professional and experimental photography. Through a range of creative digital practices, photography is examined and its cultural context articulated. Central to the studio are the conceptual and practical implications of the digital medium and the associated implications of an image-focused contemporary culture. Students are expected to utilise skills and conceptual processes they have gained in previous subjects to support the theoretical and practical aims of the subject. This subject introduces digital image manipulations, publication design, post-production, and distribution through print, web and other forms of electronic and analogue media.

Typical availability
Autumn semester, City campus
This subject investigates and examines photography’s cultural positioning, both in a contemporary and historical context through a series of lectures by contemporary photographers, artists, writers, curators, and theorists who address the ‘image’ and its production. Framed through social, political, gender and aesthetic approaches, it aims to extend the student’s critical thinking and ability to engage in a focused dialogue, round-table discussion and critique through interaction with invited guests and tutors. Students are supported in developing a theoretical and/or aesthetic foundation for the production of their own work and an ability to critically engage in the contemporary photographic discourse, and to situate their own work accordingly.

**Typical availability**
Autumn semester, City campus

### 80067 Photographic Context 1
6cp
Undergraduate
This subject investigates and examines photography’s cultural positioning, both in a contemporary and historical context through a series of lectures by contemporary photographers, artists, writers, curators, and theorists who address the ‘image’ and its production. Framed through social, political, gender and aesthetic approaches, it aims to extend the student’s critical thinking and ability to engage in a focused dialogue, round-table discussion and critique through interaction with invited guests and tutors. Students are supported in developing a theoretical and/or aesthetic foundation for the production of their own work and an ability to critically engage in the contemporary photographic discourse, and to situate their own work accordingly.

### 80068 Photographic Context 2
6cp
Requisites: 80067 Photographic Context 1 AND 80035 Photographic Artifice
Further information is available from UTS: Design, Architecture and Building.

### 80214 Locative and Sensor Design Technologies
6cp
Requisites: 80064 Interaction-based Designing AND 50846 Situated Media Installation Studio
Option
Undergraduate
This subject allows students to specialise in the application of locative and sensor technologies. Locative and related technologies include GPS and other positioning systems, and location awareness through networks and locative devices. Designing with locative technologies requires an understanding of technical protocols, infrastructure and the social, contextual and cultural features that make this technology interesting and relevant in design. Sensor technologies include motion, proximity, climatic condition, bio-data and numerous other sensor types. Like locative technologies, sensors provide information that is sensitive (potentially public or private), real time and contextual. Students examine technical mechanisms for using these technologies, strategies for mapping sensor output to display or interaction, interaction for affecting information and modifying experience, as well as evaluative methodologies for appraising human interaction with designs, including the social causes and motivations for applying locative and sensor enabled design.

**Typical availability**
Spring semester, City campus

### 81000 PhD Thesis: Design
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

### 81821 Thesis (Design)
0cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**Typical availability**
Autumn semester, City campus

### 82120 Animation Studio: Foundations in Animation Language
12cp
This foundation studio introduces students to the fundamental principles of animation and animation design thinking and practice, such as timing, rhythm, performance, weight, gravity, inertia, character, movement, line, sound and cinema space. Students are challenged to explore their creativity and curiosity through a series of animation projects that investigate the movement of life. There is an emphasis on drawing and the conceptualisation of figural and life, portraiture and character representation, which is achieved through observation and drawing. Students create design responses that build a visual language of narrative events. This subject introduces key concepts and theories of animation and cinematic language and culture.

### 82121 Context: 2D Animation Introduction
6cp
This subject introduces students to major styles from traditional animation to digital animation techniques and students are introduced to the theory and practices of 2D animation from analogue to digital. This subject is taught in tandem with Animation Studio: Foundations in Animation Language with additional activities which are targeted at developing exploratory pre-visualisation processes such as storyboarding and concept design using drawing and software such as Flash, Illustrator and Photoshop.

### 82220 Animation Studio: Foundations in Animation Design
12cp
This subject introduces students to theories and practices of 3D CGI for animation. It is primarily a skill-based subject, focused on understanding the basic technical fundamentals of animation as expressed through industry standard 3D software. Students in this subject learn the fundamentals of 3D animation in Maya, and gain an understanding of complex interface of the 3D environment. Although underpinned by the same fundamental principles as 2D animation, this subject brings a new set of challenges. The technical complexity of the CGI interface demands a patient and thorough approach, and students are required to keep a subject specific notebook. There is also a far greater challenge to be taken on here; how to invest performance in 3D digital animation with the human feel that is crucial to generating empathy. Students should be mindful that digitally generated animation can often appear sterile and cold, and an over reliance on software-led movement must be avoided. Be aware that although it is possible to generate movement very quickly in 3D, conversely it takes a surprising amount of time to refine this movement into a believable and sympathetic form.

It is important to note that there will be aspects of this subject that reiterate principles and conventions from 2D animation fundamentals. The technical demands and the major differences in work creation between 2D and 3D make this process absolutely necessary.

### 82221 Context: 3D Animation Introduction
6cp
This subject introduces students to theories and practices of 3D CGI for animation. It is primarily a skill-based subject, focused on understanding the basic technical fundamentals of animation as expressed through industry standard 3D software. Students in this subject learn the fundamentals of 3D animation in Maya, and gain an understanding of complex interface of the 3D environment. Although underpinned by the same fundamental principles as 2D animation, this subject brings a new set of challenges. The technical complexity of the CGI interface demands a patient and thorough approach, and students are required to keep a subject specific notebook. There is also a far greater challenge to be taken on here; how to invest performance in 3D digital animation with the human feel that is crucial to generating empathy. Students should be mindful that digitally generated animation can often appear sterile and cold, and an over reliance on software-led movement must be avoided. Although it is possible to generate movement very quickly in 3D, it takes a surprising amount of time to refine this movement into a believable and sympathetic form.

It is important to note that there are aspects of this subject that reiterate principles and conventions from 2D animation fundamentals. The technical demands and the major differences in work creation between 2D and 3D make this process absolutely necessary.

### 82320 Animation Studio: Narrative Investigations
12cp
This studio enables students to engage with experimental animation processes that advance their understanding of narrative and performance. Projects focus on exploring the conceptualisation of complex design ideas grounded in pre-visualisation animation practices such as concept art, character design, sound, storyboarding, animatic and prototyping. Projects also focus on the theorisation and design of screen space, performance and narrative in relation to animation.
82321 Context: 3D Animation Advanced
6cp
This subject builds on the skill sets learned in 82221 Context: 3D Animation Introduction and is designed to advance students knowledge of the theory and operation of industry 3D animation. It focuses on modelling (using industry standard programs such as zbrush and mudbox), lighting and VFX techniques. Emphasis is placed on the art of animation movement, performance and expression and students focus on the quality and aesthetics of the movement of the character design.

82420 Context: 2D Animation Advanced
6cp
This project-based subject builds on the skills and techniques introduced in 82121 Context: 2D Animation Introduction and each student develops an advanced animation response to a suite of project briefs currently explored in tandem with 82211 Animation Studio: Narrative Experimentations. When taken in sequence after students have completed 82121 Context: 2D Animation Introduction this advanced subject provides students with a detailed understanding of the design and production of 2D digital animation using industry standard software such as Flash, After Effects and Nuke. Students are expected to understand design processes in the production of 2D animation, gain knowledge of relevant software, demonstrate design and production skills, and demonstrate appropriate design solutions for a project of their choice.

82520 Context: Design for Three-dimensional Computer Animation
6cp
For subject description, contact UTS: Design, Architecture and Building.

82620 Animation Studio: Animation Industry Project
12cp
The Industry Project Studio introduces students to the negotiation of animation outcomes through collaborative animation design projects (undertaken and marked as group and individual assignments) set by creative industry / community partners. Students work in groups learning professional practice skills in documentation, communication, negotiation and design outcomes. Projects have objectives set out by the industry/community project leader who works with the academic supervisor.

82621 Context: Experiments for Animation and VFX
5cp
This subject complements the industry projects under development in Studio: Industry Project. Students work in groups (and submit work for individual and group assessment) to experiment and propose animation design solutions to the industry project. This subject requires students to apply their 3D animation skills acquired in 82221 Context: 3D Animation Introduction, 82321 Context: 3D Animation Advanced and 89205 Design for Three-dimensional Computer Animation in support of the projects undertaken in 82620 Animation Studio: Animation Industry Project. The aim of this subject is to further extend design practices in 82620 Animation Studio: Animation Industry Project. Areas include advanced rigging and character set-up using animation software such as Vicon IQ, Motion Builder and Maya to capture, process and apply motion capture and/or key frame data to a character and/or VFX. Students work in collaborative groups undertaking specific roles from pre-visualisation, production and postproduction/compositing to achieve an animation sequence outcome.

82710 Animation Studio: Advanced Animation Practice
12cp
This studio operates in tandem with 82711 Animation Studio: Animation Project Pre-production, to advance students' individual design approach to animation practice. It focuses on self-directed research, where students develop strategies and practices that inform the basis of the honours project undertaken in Semester 2. Experimentation in thinking and practice is encouraged as a means towards developing an individual design approach with an emphasis on innovation. The aim of this studio is the fostering of conceptual thinking and design research into a key area of animation visualisation such as performance, VFX or narrative as it relates to their final studio, 82800 Animation Studio: Animation Project / Production.

82711 Animation Studio: Animation Project Pre-production
12cp
In this studio, students undertake to develop an idea/script/concept brief for an original short piece of animation work done in tandem with 82710 Animation Studio: Advanced Animation Practice. Their project can be in any form and style of animation production. Students work with leading animation professionals and academic supervisors to negotiate the feasibility and length of their proposed project and production schedule. In the first semester, students are expected to take their project through research and appropriate pre-production processes (such as script development, pre-visualisation of key animation concepts, storyboard stages and/or visual scripts). They are expected to continue to develop their technical skills through a series of dedicated workshops and master classes.

82800 Animation Studio: Animation Project/Production
24cp
This is the capstone project within the Honours year, building upon conceptualisation undertaken in Semester 1. Students realise an innovative animation design solution to their animation problem. These projects are self-directed and supported by leading animation professionals and academic supervisors and students may be able to engage industry practitioners in specialist fields of animation production and postproduction/post-visualisation processes. Students are expected to complete a piece of animation of broadcast or public exhibition standard, which must show evidence that they have engaged in a lively dialogue between theoretical ideas and production practices. Their completed project should demonstrate their professional skills, creative expertise and evidence of their capacities as an animator or digital VFX designer.

83000 Fashion and Film
6cp, intensive 10-day block on campus: 1hr lecture, 2hr tutorial, 2hr film screening/critique
Undergraduate
This subject explores the links between film and fashion that date back to the beginning of cinema. It traces the growing importance of the ‘star system’ that characterised classic Hollywood, which has been replaced today by the phenomenon of the ‘actor-as-celebrity’. Students look at the operations of the film-fashion relationship in other national cinemas, for example the global impact of French stars such as Brigitte Bardot and Italian films of the post-war period such as La Dolce Vita, a favourite film of so many fashion designers. The subject also examines the relationship between film and fashion into the 21st century; the ‘celebrity system’, film and fashion-related merchandising, fashion-related retailing, tie-ins and the way in which cinema creates desirable body shapes for every decade.

Typical availability
July session, City campus

83119 Thinking Fashion
6cp, 4hpw
Undergraduate
This subject provides a foundation to fashion design practice. Through a series of lectures and design studio tutorials, students gain knowledge and design skills to enable them to undertake practical and theoretical investigation into the area of fashion practice. The lecture series introduces students to key theories of fashion, set around on the cultural, political and social significance of the dressed body. Topics include the fashion system, semiotics of fashion, fashion as art, and conceptual approaches to fashion. Design studios provide a practical context to examine the relationships between a range of 2D and 3D media, creative exploration and conceptual development. The subject culminates in the creation of an original fashion design project utilising conceptual approaches and practical investigation.

Typical availability
Autumn semester, City campus

83121 Fashion Communication: An Introduction
6cp
Undergraduate
This subject introduces the visual language of fashion through digital and freeshand modes of communication. Students study the human body through life drawing and the basic rendering techniques required. Students are also introduced to digital means of representing mark-making and an understanding of the computer environment.

Access conditions are available in the individual subject descriptions in the online handbook.
**Typical availability**  
Autumn semester, City campus

**83231 Fashion Cultures**  
6cp  
This subject encourages students to further investigate fashion practice through design investigation while integrating individual research into studio activities. A lecture series provides an overview of the relationship between cultural innovation and the fashioned body in relation to a number of historical and contemporary subcultures. Design studios provides a practical context for the exploration of fashion practice in relation to alternate garment making methodologies, creative process, process documentation, reflective practice and image making. The subject culminates in the creation of an original fashion design project enabling the student to position fashion design practice as a form cultural research.

**First-year experience videos**  
View commentary from students and academics about this first-year subject at:  
- Student video: www.youtube.com/user/utschannel#p/u/13/7f6nKLJIRy  
- Academic video: www.youtube.com/user/utschannel#p/u/23/ELMkKxK0EzE

**83233 Fashion Illustration Fundamentals 2**  
6cp  
This subject continues to develop students' understanding of the visual language of fashion and textile design. This includes the study of fashion illustration techniques, range and production drawings. In computing, students translate illustration and production drawings for further exploration through digital media.

**Typical availability**  
Spring semester, City campus

**83341 Fashion, Gender and Identity**  
6cp; lecture and studio practice  
Requisite(s): 83119 Thinking Fashion AND 83231 Fashion Cultures AND 85502 Researching Design History AND 85503 Design Thinking  
Undergraduate  
This subject explores the social and political representations of gender and identity in fashion by studying the conditioning of the body and body image in western society. It challenges students to question fashion imagery and to analyse its message surrounding gender and cultural identity. It engages with fashion theory regarding the construction, performance and representation of gendered and sexual identities. The representation of appearance and its projection through media and cultural production is a key theme of this subject and provides the opportunity for students to engage in different modes of representation such as film, advertising, fashion photography, texts, and magazines.

**Typical availability**  
Autumn semester, City campus

**83343 Studio: Bespoke Fashion**  
6cp  
Requisite(s): 83231 Fashion Cultures AND 83341 Fashion, Gender and Identity AND 83342 Couture Techniques AND 85502 Researching Design History AND 85503 Design Thinking  
Undergraduate  
This subject encourages students to explore traditional techniques as a means to create and engage with an inquiry into complex fashion design outcomes. The emphasis of the subject focuses on generating individual and original fashion design solutions specifically in relation to the human form. Students advance their design and technical knowledge as they are challenged to design three-dimensionally for the body. The subject is supported by specialised lectures, case studies and studio practice. It investigates the historical and contemporary context of fashion, and is supported by approaches to fashion draping as an essential methodology. This subject combines both design and technical practices. It enables students to engage with advanced fashion construction skills as appropriate to the high fashion and couture markets including hand-sewing techniques.

**Typical availability**  
Spring semester, City campus

**83344 Fashion Communication: Drawing and Digital Media**  
6cp  
Requisite(s): 83233 Fashion Illustration Fundamentals 2  
Undergraduate  
This subject consolidates the knowledge and understanding of drawing and digital media studied in previous communication subjects. Students develop projects specifically related to major studies in fashion. Students are encouraged to use both digital and freehand modes to explore the creative process, which may include client presentation and layout of fashion concepts. Mode of delivery is studio practice.

**Typical availability**  
Autumn semester, City campus

**83563 Dress, Body and Couture**  
6cp  
Requisite(s): 83341 Fashion, Gender and Identity AND 83342 Couture Techniques AND 83343 Studio: Bespoke Fashion AND 83345 New Textiles and Technologies  
Undergraduate  
This subject provides students with the opportunity to further explore design in relation to art, the body and form. A lecture series addresses notions of fashion's connection to art, conceptual design practices, alternative perceptions of couture practices and different forms of fashion presentation. Students pursue individual interests in terms of design and its application into a fashion context.

**Typical availability**  
Spring semester, City campus

**83566 Contemporary Fashion Styling**  
6cp  
Undergraduate  
This subject explores fashion styling and art direction in relation to the associated industries. Through a series of lectures, tutorials and project work, students research, analyse and consider the messages conveyed through fashion visual imagery, and use this as a basis for concept development and application towards, for example, a catwalk show, magazine or an advertising campaign.

**Typical availability**  
Spring semester, City campus

**83568 Advanced Fashion and Textile Techniques**  
6cp  
This practice-led subject is designed to encourage students to build advanced skills and knowledge in technical areas of fashion and textile design. The subject includes issues relating to designing for 'product life extension'. Each of the projects offers a series of lectures and studio tutorials, which introduce students to contemporary and historical aspects and theory. These also include professional and ethical design practice. A selection of textile project options are offered.
83621 Studio: Foundations in Patternmaking and Construction 1
6cp
Undergraduate
This subject aims to provide students with the basic technical skills and abilities essential to begin interpreting design into a 3D form. Students participate in workshops that incorporate flat pattern making and garment construction where they learn the various techniques, finishes and specifications required to generate design ideas and concepts into realised outcomes.

Typical availability
Autumn semester, City campus

83622 Studio: Fashion Illustration Fundamentals 1
6cp
This subject introduces students to the fundamentals of fashion illustration as a means to develop an essential understanding of modes of visual communication within a fashion context. In the illustration module of the subject, students examine freehand modes of drawing and discover the importance and connections between technical drawing and the relationship to the human body. The digital module familiarises students to computer software such as Adobe Photoshop and instills visual techniques suitable for creating professional fashion layouts and range books to present their design work.

83721 Studio: Fashion Illustration Exploration
6cp
This subject enables students to advance their knowledge and technical skills in fashion communication. It extends the techniques gained in 83622 (see page 952) Fashion Illustration Fundamentals 1 and 83233 (see page 951) Fashion Illustration Fundamentals 2 through exploring complementary mediums and modes of fashion illustration. Subject content includes life drawing and initiating students to digital media software such as Adobe InDesign as a means to create professional layouts and designs.

83722 Studio: Body Mapping
6cp
In this subject the primary emphasis is to introduce students to the fundamentals of working with stretch and knitted fabrications, and generating contoured fashion design ‘on-the-body’. The subject combines design and technical components, and teaches students how to develop design concepts suitable for predetermined markets, patternmaking and construction of ‘bodywear’, such as swimwear or sportswear. The subject is supported by a series of lectures with industry specialists as a means for students to advance their knowledge and provide research pathways for third-year subjects. Students are challenged to produce a portfolio of illustrated design work as a means to translate a series of their designs into realised outcomes. Students investigate advanced notions of patternmaking, constructing garment toiles, body fitting techniques, and critiquing final garment design.

83723 Textile Lab: New Technologies
6cp
This subject introduces students to the fundamentals of textile print design and emerging digital technologies for fashion. Through a series of workshops, students explore creative methods to generate imagery, with the emphasis on individuality, originality and innovation for textile application. Students learn traditional textile production techniques including screenprinting, and contemporary digital textile techniques including sublimation and digital printing. In this subject students challenge print conventions and explore creative photographic and graphic styles. Students are introduced to techniques used to create repeat patterns and how to prepare artwork for print production in industry. A series of lectures and workshops introduce students to developments in techno textiles, including extreme, medical and sports applications, with the aim to generate an awareness of creative potentials for fashion design innovation. An emphasis throughout this subject is placed on a professional and sustainable print room practice. The subject is linked to industry sponsorship opportunities.

83773 Fashion and Textiles Research Dissertation
6cp
There are also course requisites for this subject. See access conditions.
Undergraduate
In this subject students are required to research a project oriented to support their personal design philosophy or interest in a design-related topic. Research must be presented in a written form and may include visual components.

Typical availability
Autumn semester, City campus

83774 Fashion and Textile Research and Conceptualisation
12cp
This subject requires students to research a project that supports their personal design philosophy or interest within a fashion and/or textile design-related field. The in-depth design project provides a structured experience for students by offering a self-directed design project that combines research and practice. The subject is supported by a series of lectures, tutorials and workshops that address current fashion and textile design issues. It concludes with a final body of experimental design work that documents the research and design process.

83777 Professional Practice for Fashion and Textile Designers
6cp
Undergraduate
This subject prepares students for entry into professional practice. There are lectures on business procedures related to fashion and textile design and the subject includes copyright and ethical issues specific to the discipline. Students follow a self-initiated project designed to enhance their professional knowledge and skills with regard to the fashion and textile design industry. Examples of possible project areas include industry initiated design competitions, industry linked grant application, business plans and community collaboration. While the subject is self-directed, learning is supported by group tutorials and workshops.

Typical availability
Autumn semester, City campus
Summer session, City campus

83821 Studio: Men’s Collection
12cp
This subject gives students the opportunity to explore fashion within an international context and focuses on design, making and presentation of original menswear. A lecture series explores contemporary and historical contexts of male culture, in relation to men's style and the performance and presentation of masculine identity. A brief enables students to challenge their own aesthetic bias by working with an existing design signature, utilising research, technical and conceptual skills to produce a significant body of creative work. This subject brings together a strong industry focus set around range development and the presentation of contemporary menswear. Students are provided with an opportunity to consider alternate modes of presenting menswear proposals. These revolve around 2D image making and publication or the presentation of the menswear within spatial and performative contexts.

83822 Studio: Women’s Collection
12cp
In this subject students explore experimental fashion practice as it relates to contemporary womenswear. The subject is supported by a series of guest industry lectures and specialised studio workshops where students explore contemporary ideas and design methodologies. The lecture series introduces students to conceptual fashion practice and the relationship of fashion to the body. Through a series of workshops in explorative draping techniques, students investigate a sculptural approach to garment formation,
and generate ideas for womenswear range outcomes. This subject encourages students to challenge and extend contemporary fashion practice, expressed in the production of garment outcomes and design of a women’s collection.

83823 Fashion and Textiles Professional Practice
6cp
This subject develops students’ understanding of professional practice in the fashion and textile design industries. The focus for the subject is on contemporary industry practice within both local and global markets. Students develop their understanding of different roles within fashion and textile business structures, and projects are developed through both individual and group work to simulate design team environments. The role of the designer within the fashion system is explored, together with practices of marketing, manufacturing, and business planning. Students are introduced to industry practices such as costing garment ranges, and explore retail environments and e-commerce. Students are also introduced to career development options, job applications and portfolios. The subject includes contemporary issues which challenge industry practices including ethical and environmental concerns.

83881 An Introduction to Patternmaking and Construction
6cp
Undergraduate
This subject aims to provide students with the basic technical skills and abilities essential to begin interpreting design into a 3D form. Students participate in workshops that incorporate flat pattern making and garment construction where they learn the various techniques, finishes and specifications required to generate design ideas and concepts into realised outcomes.

Typical availability
Autumn semester, City campus

83882 Foundations in Patternmaking and Construction 2
6cp
This subject aims to further develop students’ understanding and technical abilities in flat pattern making and garment construction. This allows students to gain a critical understanding of block construction and the possibilities of producing more complex design solutions through pattern development. The content pre-empts the design subject in the following semester.

Typical availability
Spring semester, City campus

83883 Couture Techniques
6cp
Undergraduate
This subject promotes traditional specialist techniques through a variety of complex and inquiring design outcomes. Through case studies and studio practice students investigate the historical and contemporary context, as well as the use of, haute couture techniques. This subject is supported by drape methodology and introduces students to the fundamental techniques of creating design on a mannequin and the human form.

Typical availability
Autumn semester, City campus

83884 Men’s Collection
6cp
Undergraduate
This subject focuses on designing for men, covering issues regarding the evolution of men’s attire and the context of the male in society. Through research work and a project brief, students explore the historical and contemporary context of menswear, eventualing in a body of work.

Typical availability
Autumn semester, City campus

83885 Tailoring: New and Traditional Techniques
6cp
For subject description contact UTS: Design, Architecture and Building.

83886 Women’s Collection
6cp
Requisites: ((83561 Men’s Collection OR 83884 Men’s Collection) AND 83563 Dress, Body and Couture AND 83568 Advanced Fashion and Textile Techniques)
Undergraduate
In this subject students explore experimental fashion practice as it relates to contemporary womenswear. The subject is supported by a series of guest industry lectures and specialised studio workshops where students explore contemporary ideas and design methodologies. The lecture series introduces students to conceptual fashion practice and the relationship of fashion to art and the body. Through a series of workshops in explorative drape techniques, students investigate a sculptural approach to garment formation and generate ideas for womenswear range outcomes. This subject encourages students to challenge and extend contemporary fashion practice, expressed in the production of garment outcomes and design of a womens collection.

Typical availability
Spring semester, City campus

83887 Fashion and Textile Design Major Project
24cp
Undergraduate
The major project allows students to fully demonstrate their professional ability and accumulated knowledge from previous years’ study, through the execution of a personally prepared design brief completed earlier in the year. The project is self-directed and study is independent of the program but is supported by lecturers in supervisory roles. Assessment is based on the process and presentation of an agreed and completed body of work.

Typical availability
Spring semester, City campus

83888 New Textiles and Technologies
6cp
The aim of this subject is to introduce current and emerging technologies and processes developed by industry and applied to textiles in the field of art, design, engineering and science. Students explore current and future concepts of textiles and consider their
specific application into fashion design. Students are introduced to the design potential of these materials and develop an awareness of the creative possibilities of new textile processes. Through a series of lectures and workshops, students are also introduced to the contemporary work of textile artists and designers who use new textile technologies in their work.

Typical availability
Spring semester, City campus

83900 Research Realisation: Major Project
24cp
Further information on this subject is available from UTS: Design, Architecture and Building.

83921 Research: Fashion and Textiles Dissertation
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

83922 Research: Professional Practice Identity
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

83923 Research: Fashion Concept Lab
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

84000 Industrial Design Special Project
6cp
Industrial design covers a diverse and complex range of issues dealing with the human condition and the built environment. Due to this diversity and complexity, practitioners generally specialise within a sector of the industry. This subject offers students the opportunity to gain a highly developed and detailed understanding of a specialised or specific area of industrial design practice. Entry into this subject is based on the capabilities of the individual student and the appropriateness of the proposed study. Students engage with a specific project through a supervised self-directed learning contract that offers a flexible learning approach. Projects may respond to community and faculty needs or to the individual student's preferred direction in their academic and career development. This subject may only be undertaken following consultation with and approval by the course director.

84110 Aesthetics in Industrial Design
6cp
Undergraduate
Aesthetics play a very important role in industrial design – how people perceive a product can mean the difference between its success, or failure in the market place. However aesthetics are more than simply a means of selling products, the pleasure derived from using products that look, feel and work beautifully is very important to humans from all backgrounds. This subject explores what it is that determines whether aesthetics succeed or fail, and gives the student first-hand experience in analysing and discussing aesthetic as well as practical experience in designing with aesthetic development as the main focus. The subject covers the creative process and methodologies for identifying and developing both aesthetic judgment and confidence.

Typical availability
Autumn semester, City campus

84111 Understanding Three-dimensional Form
6cp
Undergraduate
Throughout the program, students are expected to construct simple models, make test components and possibly working prototypes. This practical, hands-on subject sets the foundation for this work. It covers the appropriate use of materials and tools and the related OH&S issues. The subject includes workshop accreditation required for the use of power tools and equipment. Exercises involving the construction of three-dimensional objects form part of the subject.

Typical availability
Autumn semester, City campus

84112 Integrated Product Design Communications
6cp
Undergraduate
This subject will introduce students to the techniques used by the industrial designer to communicate his or her own ideas and designs. There will be workshops that look at the different styles used in hand drawing. There will also be workshops to introduce the principals of geometry and measured drawing that will form the basis for working three-dimensionally in the digital environment later in the course.

Typical availability
Autumn semester, City campus

84113 Problem Solving in Industrial Design
6cp
Undergraduate
This subject therefore introduces basic problem solving structures and strategies within an industrial design context. This is accomplished using various teaching strategies including a series of formal lectures, industrial design problems and projects (long term and short term) to be completed as individuals and in groups.

Typical availability
Autumn semester, City campus

84120 Structure, Form and Material in Industrial Design
6cp
Requisite(s): 84110 Aesthetics in Industrial Design AND 84111 Understanding Three-dimensional Form AND 84115 Informing Integrated Product Design
Undergraduate
All products need a certain degree of structure if they are to function. Understanding how products respond to the environmental loads placed upon them is therefore an important part of design. This subject aims to help students identify the way in which products react to various types of load, and how to design in a suitable level of structure. Starting with an introduction to materials' properties, and simple engineering principles, the subject develops an understanding of how form and material choice can be manipulated to achieve the desired design outcome.

Typical availability
Spring semester, City campus

84121 Computer-aided Industrial Design
6cp
Requisite(s): 84114 Integrated Product Design Digital Communication
Undergraduate
Computer-aided design is a substantial part of an industrial designer's repertoire. This subject continues with the mechanics of three-dimensional computer modelling and how it can be used to explore form and create virtual products. It also covers how the model can be used to communicate that form to others and how to support downstream manufacturing processes. This subject gives students exposure to the whole process from form creation to product realisation.

Typical availability
Autumn semester, City campus

84122 Ergonomics and Industrial Design
6cp
Requisite(s): 84110 Aesthetics in Industrial Design AND 84111 Understanding Three-dimensional Form AND 84115 Informing Integrated Product Design
Undergraduate
Ergonomics is the application of scientific information about human capabilities and limitations to design. Anthropometry is a component of ergonomics that is about the measure of human scale and strength. Ergonomics and anthropometry play a fundamental role in industrial design. The scale and capabilities of humans provides critical guidelines for the successful development of product and
interface designs. By appropriate application of data, designers can make designs that are efficient and effective to use. This subject introduces the various measures of both efficiency and scale, and informs students of where to find and how to set about interpreting scientific data relating to the topic.

**Typical availability**

Autumn semester, City campus

**84123 Material Manipulation**

6cp
Requisite(s): 84120 Structure, Form and Material in Industrial Design
Undergraduate

Manufacturing is intrinsic to design - without an understanding of basic manufacturing principles such as how materials are processed, which materials provide what properties, etc., it is impossible to produce a considered design response to a problem. This subject aims to introduce students to major processes and materials, to involve them in design projects that demand material and process considerations, and to initiate a lifelong learning process aimed at validating the conceptual design process.

**Typical availability**

Spring semester, City campus

**84124 Sustainability and Design**

6cp
Requisite(s): 85503 Design Thinking AND 84110 Aesthetics in Industrial Design AND 84111 Understanding Three-dimensional Form AND 84115 Informing Integrated Product Design AND 85502 Researching Design History
Undergraduate

Among the more urgent needs of human societies today is to realise sustainable relationships with our planet's biosphere. The last decade has seen the emergence of increasingly comprehensive strategies by which designers can contribute to this wider societal goal. This subject provides frameworks for these strategies, options for their implementation in industrial design, as well as project opportunities to gain practical experience in their application.

**Typical availability**

Spring semester, City campus

**84130 Product Technology**

6cp
Requisite(s): 84120 Structure, Form and Material in Industrial Design AND 84123 Material Manipulation
Undergraduate

This subject makes an in-depth examination of how things work. It is intended to give students an understanding of the technology that makes products work and enables humans to interact and control product functions. The completion of a major project requires students to demonstrate an understanding of the creative application of technology to a product design of their own.

**Typical availability**

Autumn semester, City campus

**84131 Industrial Design Directions**

6cp
Requisite(s): 84110 Aesthetics in Industrial Design AND 84111 Understanding Three-dimensional Form AND 84115 Informing Integrated Product Design AND 85502 Researching Design History AND 85503 Design Thinking
Undergraduate

This subject is about exploring different careers that are available on completion of the Industrial Design course. Students have the opportunity to research one or more design career options in some detail and either undertake work experience in the design field of their choice or carry out an externally related project based on their design interest. Past graduates and practising designers are invited to talk about their experiences and the realities of working as professionals.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**84133 Industrial Design Theory**

6cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking
Undergraduate

Design is experiencing profound change, instigated in part by remarkable and rapid developments in technology and changing perceptions of the role of design in society. This subject considers diverse theoretical and practical developments core to contemporary and future industrial design practice. It fosters divergent, emergent and sometimes controversial viewpoints. It is offered primarily by way of lectures and seminars. Students are mentored in researching and presenting material relevant to the subject themes.

**Typical availability**

Spring semester, City campus

**84135 Ecodesign Practice**

6cp
Requisite(s): 84124 Sustainability and Design AND 84904c Integrated Product Design Major Project: Realisation

It is during the design process that the potential for environmental improvement becomes a reality. This subject describes the practical steps and strategies available to industrial designers wanting to optimise their product's environmental performance. Designers must make complex trade-offs over the whole product life cycle during the ecodesign process.

**Typical availability**

Autumn semester, City campus

**84610 User-Centred Design**

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**84611 Design Thinking in Integrated Product Design**

6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**84710 Research Methods in Integrated Product Design**

6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**84711 User-Centred Design**

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**84712 Product Engineering**

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

**84771 Industrial Design Project 700A**

6cp
Requisite(s): 84120 Structure, Form and Material in Industrial Design AND 84123 Material Manipulation AND 84130 Product Technology
Undergraduate

**Market focus:** A manufacturer or company representative briefs the students on a real-world design problem as seen from a marketing perspective. Students are required to draft a formal brief, prepare a task/time sheet and develop a resolution to the problem. On completion they present the solution to the ‘client’ for feedback.

**Typical availability**

Autumn semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
84772 Industrial Design Professional Practice
6cp
Requisite(s): 84122 Ergonomics and Industrial Design AND 84130 Product Technology AND 84133 Industrial Design Theory AND 84134 Integrated Product Design Professional Communication
Undergraduate
This subject focuses on understanding the different models of design management structures and methods used in industry and recognising their impact on the design process. The practice of industrial design, particularly Australian design, is investigated through a series of case-study presentations. Particular emphasis is placed on issues relating to ethics, intellectual property and contractual administration in new product development. This subject enables the student to deepen their understanding of industrial design through application of knowledge gained in the course to the area of professional practice.

Typical availability
Autumn semester, City campus

84780 Research Dissertation ID
6cp
Requisite(s): 84131 Industrial Design Directions AND 84133 Industrial Design Theory
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject ties together many of the strands of the program to date. Students examine an activity field from a design systems perspective: the tasks required to perform the activity, the current products involved, the size of the field and its complexity. In short, all the systems which interact with the field of study. The aim is to find where improvements might be made and how they might be implemented, either by changes to the system or by the introduction of new or improved products. The results are compiled in a report.

Typical availability
Autumn semester, City campus

84811 Smart Design
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

84812 Innovation and Commercialisation in Integrated Product Design
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

84880 Major Project ID
24cp
Requisite(s): 84771 Industrial Design Project 700A AND 84780 Research Dissertation ID AND 84140 Industrial Design Professional Practice AND 84134 Integrated Product Design Professional Communication
There are also course requisites for this subject. See access conditions.
Undergraduate
The major project is determined by the student in consultation with staff, and the topic is normally derived from research carried out in 84780 Research Dissertation ID. The field of study largely determines the content, however it is expected the project will include an analysis, solution proposal, documentation and presentation. The aim of this project is to demonstrate the skills and knowledge gained during the course.

Typical availability
Spring semester, City campus

84902 Industrial Design Major Project: Research and Conceptualisation
12cp
Requisite(s): 84122 Ergonomics and Industrial Design AND 84130 Product Technology AND 84133 Industrial Design Theory AND 84134 Integrated Product Design Professional Communication
This is a project driven subject focused on researched-based designing. Throughout it students produce a design project brief and a number of conceptual designs. The brief is developed through engagement of appropriate research methodologies. These include but are not limited to background contextual research; theoretical conceptual investigation; situation analysis; problem-statement; and statement of aims, methods and outcomes and technological mapping. The brief development should be further informed by contextual exploration through in-depth observation, interviewing or probing of the social context. The conceptual designs should evidence explorations of form, function, ritual-of-use, ergonomics, product life-cycle, materials and technologies.

84903 Industrial Design Professional Project
12cp
Requisite(s): 84122 Ergonomics and Industrial Design AND 84130 Product Technology AND 84133 Industrial Design Theory AND 84134 Integrated Product Design Professional Communication
This subject allows students to demonstrate and build on their comprehension of the knowledge gained so far in the course. Projects emphasise all aspects of the industrial design process and students are required to engage with social, technological, environmental and commercial issues. Projects reflect real-world design briefs, where possible, supported by a manufacturer or company.

84905 Design in the Wild
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

84906 Professional Studio
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

85202 Interdisciplinary Lab A
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

85302 Interdisciplinary Lab B
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

85500 Design Futures: Creative Technologies
6cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking
Undergraduate
In this subject, students enhance the creativity of their designing in the context of increasingly technology-dependent futures. Students experiment with a range of creative problem-solving techniques and learn to take more risks with lateral ways of generating design options. Through various philosophies of technology and case studies of the development, take-up and consequences of a number of technological innovations, students also gain an understanding of how technology creates, and is created by, changing cultural habits, perceptions and values. By bringing together information on creativity strategies and human-technology relations, students are able to develop alternative futures through experiments with design-orienting scenarios.

Typical availability
Autumn semester, City campus
85502 Researching Design History

6cp
In this subject students are introduced to academic culture and the research and argumentation conventions involved in higher learning. Students use these skills to investigate key issues throughout the history of modern design. With this understanding, students begin to be able to make judgments about what design can and needs to do in the coming decades.

Typical availability
Autumn semester, City campus

85503 Design Thinking

6cp
Undergraduate
The aim of this subject is to help students develop their attitude, behaviour and thinking as designers. It aims to show them what the field of design looks like from the inside and to challenge preconceptions. Students develop their knowledge of design processes and design research techniques that are common to all design disciplines. Students learn a range of strategies for working in teams, defining design problems, researching design contexts, generating creative responses, evaluating proposals from different perspectives, and visualising the arguments for proposals. The subject also introduces students to the rigorous and self-directed learning environment of the School of Design.

Typical availability
Autumn semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
• Student video: www.youtube.com/watch?v=5M_f637qLOY
• Academic video: www.youtube.com/watch?v=B-U5Qnt6PiA

85504 Design Futures: Sustainable Lifestyles

6cp
Requisites: 85502 Researching Design History AND 85503 Design Thinking
This subject examines how design can influence people to live and work more sustainably. Students investigate the many varied historical and international forces that have led modern consumer societies to evolve unsustainably and utilise resources inequitably. By engaging with theory and practice students gain an understanding of the forces that continue to prevent societies from becoming more sustainable. Through this subject students develop proposals for design-led attitudinal and behaviour change toward more sustainable ways of living and working.

Typical availability
Spring semester, City campus

85505 Design Interventions: Making Theories

6cp
Every design embodies a theory about people, the world and the way people interact with products, environments and communications. This subject teaches how to develop well-constructed theories that can give new insights into situations and thereby develop more creative and more effective designs. Students are introduced to a range of current cultural theories including: visual culture – which focuses on the way the ‘society of spectacle sees things’; and material culture – which focuses on the material things we depend upon and value by owning.

Typical availability
Spring semester, City campus

85506 Design Differences: Intercultural Asia

6cp
Requisites: 85502 Researching Design History AND 85503 Design Thinking
In this subject, students explore issues of intercultural communication and cross-cultural designing. The subject examines the differences in design cultures not only between the East and West, but between different east Asian countries, and within those countries as they negotiate post-colonialism or globalisation. Students learn about some of the design traditions and philosophies of particular North-East and South-East Asian countries. Through applied research toward interdisciplinary design projects, students also explore current design issues and trends, including the nature of professional practice in those countries.

85509 Design Differences: Community Identities

6cp
Designers fulfil the needs and desires of others through empathy. This subject explores notions of identity so that you can have more insight into your own background and more flexibility when trying to understand the backgrounds of others. You will examine changing senses of self and community in an age of globalised media and commerce using contemporary cultural studies perspectives. The subject also explores the politics of marginal and mainstream identities through a range of experiences and experiments. As a result, you will become more adept at working with a range of competing and often incompatible stakeholder expectations.

Typical availability
Autumn semester, City campus

85601 Design Interventions: Business Innovation

6cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking
Designers do not have to wait for clients to walk through the door, but can instead use their design skills to develop new businesses. This subject explores the fields of innovation and leadership to give students contexts for designing entrepreneurially. Students look at case studies that have employed design to create new markets, reshaping habits, perceptions and social values. This subject centres on interdisciplinary collaborations through which, students identify a new market potential whilst experimenting with future-orientating scenarios, and then, in consultation with representatives of that context, design/propose something for that new market.

Typical availability
Autumn semester, City campus

85602 Interdisciplinary Design Lab: Undergraduate

6cp
Requisite(s): 85701 Research Based Designing
This subject is an opportunity for students to work intensively on experimental briefs that range across design disciplines. The design lab allows them to extend their abilities by engaging with challenging briefs in innovative contexts, such as emerging technologies or pressing social issues. The labs enhance critical analysis skills and the creativity of design work. They also teach students better team and project management skills in time-pressured situations and create opportunities to reflect on their own design processes when compared to those of other disciplines.

Typical availability
Spring semester, City campus

85603 Interdisciplinary Design Experience: Undergraduate

6cp
Requisite(s): 85701 Research Based Designing
This subject is an opportunity for students to work intensively on experimental briefs that range across design disciplines. The design lab allows them to extend their abilities by engaging with challenging briefs in innovative contexts, such as emerging technologies or pressing social issues. The labs enhance critical analysis skills and the creativity of design work. They also teach students better team and project management skills in time-pressured situations and create opportunities to reflect on their own design processes when compared to those of other disciplines.

Typical availability
Spring semester, City campus
85604 Reflective Practice
3cp
Professional designers are reflective practitioners, reflecting on their designs and their designing, while designing and after completing a job. Expert designers share their reflections with their peers and actively challenge the habits and prejudices revealed by their reflections. Through a series of readings, design exercises and writing exercises, students learn how to notice aspects of their designing worth reflecting on, how to interrogate what they notice, develop and test theories about their designing, and how to implement changes to the way they design.

85605 Design Differences: Community Identities
3cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking
Undergraduate
Designers fulfil the needs and desires of others through empathy. This subject explores notions of identity so that students can have more insight into their own background and more flexibility when trying to understand the backgrounds of others. Students examine changing senses of self and community in an age of globalised media and commerce, using contemporary cultural studies perspectives. This subject also explores the different ways designers can help build the capacities of communities to sustain themselves in the future. The subject centres around interdisciplinary collaborations through which students identify an area of need, and then, in consultation with representatives of that context, design empowering responses.

85701 Research Based Designing
3cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking AND 85506 Design Differences: Intercultural Asia OR 85601 Design Interventions: Business Innovation OR 85504 Design Futures: Sustainable Lifestyles OR 85500 Design Futures: Creative Technologies) AND 85603c Interdisciplinary Design Experience:
Undergraduate
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
The quality and innovativeness of professional designing depends upon careful and creative research. This subject introduces students to a range of methods and strategies appropriate to design processes through which designers can acquire valid and insightful understandings of the contexts in which they are designing. Students also learn through project work how to select research strategies most appropriate to the focus of each design project. In addition, the subject enhances the evaluative and argumentation skills of the students, both in terms of analysing collected data and presenting research findings to design teams, clients and stakeholders.

Typical availability
Spring semester, City campus

85702 Interdisciplinary Design Lab
3cp
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking
Undergraduate
In this subject, design is conceived of in its widest and most exciting sense; as an agent for change in a complex world. The aim of the interdisciplinary design labs (DLabs) is to connect students with live research projects led by staff across the design school. The DLabs offer students from all disciplines a diverse range of exciting projects, often with partners from industry or the community, which engage with real-life problems and opportunities. The DLabs focus on problems that require an interdisciplinary design approach, and develop students’ skills in collaboration and teamwork. The emphasis of this subject is on experimentation and innovation. The DLabs aim to prepare students for future developments in the design professions.

Typical availability
Spring semester, City campus

86001 Strategies for Interior Design
3cp
This subject introduces the student to a number of strategies for designing interior places. Strategies discussed include methods of rational analysis and synthesis, formal design paradigms drawn from history, strategies for developing concepts and for making space meaningful to user groups. These strategies provide a diverse set of tools that can be employed within different design contexts or at different stages in the design process. Various techniques for exploring and representing design ideas are also introduced. The subject aims to provide a foundation for future expertise in designing.

86002 The Human Environment
3cp
Using a cross disciplinary approach, ideas and methods from the fields of behavioural psychology, anthropology, anthropometry, ergonomics, demography, and interior design are used to develop students’ awareness and understanding of the interaction between people and interior environments. This overview is essential to students’ understanding of the way human beings and their behaviour are influenced by and influence the design of interior places and environments.

86003 Interior Design Conceptualisation
3cp
This subject provides a foundation for understanding the design of permanent and impermanent spaces. Through the means of studio projects students explore and apply various design strategies with a focus on concept generation and design synthesis. This enhances their ability to develop and apply original conceptual approaches to design projects.
Students in this subject gain experience in team and individual work, conceptual thinking, interpretation, and the realisation of design ideas across four dimensions.

86004 Design Studio: Foundations in Spatial Language
12cp
This design studio introduces students to the thinking and practice of spatial design. It exposes students to key designers and projects in order to build the student’s language of the discipline and define the context in which they will work. Students are challenged to explore and develop their creativity and curiosity through a variety of speculative design projects. First-year presentations focus on key practitioners, theorists and histories across the field of spatial design, including spatial designers, designers, architects, artists and filmmakers.
The design studio constitutes the primary vehicle for student learning and development throughout the Interior and Spatial Design program. Studios combine design tutorials, lectures, workshops, symposia, presentations and critical feedback.

86005 Design Studio: Foundations in Spatial Design
12cp
This design studio engages students with the thinking and practice of interior and spatial design. It develops students’ language of the discipline through a study of key designers and projects in order to build and define the contexts in which the students work. Students are challenged to engage and develop their creativity and curiosity through a variety of speculative design projects.
The design studios constitute the core vehicle for student learning and development throughout the Interior and Spatial Design program. Students in this studio develop formal and informal experimental methods and through rigorous, iterative practices engage in the realisation and presentation of design concepts. The design process is evolved through the introduction of ideas of event, program and spatial organisation. Augmented by related readings and theory, students are asked to develop and present a designed response to a site, a community, a series of processes and intertwined issues.
First-year students focus on key practitioners, theorists and histories across the field of interior and spatial design, including interior designers, architects, artists and filmmakers.
86008 Context: Image and Making (Representation)  
6cp  
This subject aims to introduce students to the principal techniques of spatial visualisation and communication. The emphasis is on exploring multiple representational techniques in a rigorous and thoughtful way. Subject content includes drawing, sketching, drafting, digital image production and basic analogue model making. The subject develops students’ ability to understand three-dimensional space, visualise spatial environments, and represent these clearly and effectively through a range of media. Students’ understanding of space as a medium evolves during the design process through an ability to translate spatial ideas across multiple communication modes. In this subject a variety of drawing and modelling techniques, often in tandem or in quick succession, build a flexible, multi-modal way of generating spaces.

86009 Context: Image and Making (Generative Methods)  
6cp  
This subject aims to establish and evolve techniques of spatial visualisation and communication. The emphasis is on exploring multiple representational techniques in a rigorous and thoughtful way. Subject content includes sketching, hand drafting, 2D and 3D CAD, graphic image production and analogue model making. Essential in visualising spatial environments is the designer’s ability to understand three-dimensional space and translate that understanding clearly and effectively. This understanding evolves during the design process through an ability to translate spatial ideas across multiple communication modes. Students in this subject learn a variety of drawing and modelling techniques, often in tandem or quick succession, building a flexible, multi-modal way of working. There is an emphasis on developing the student’s ability to generate forms and images through an iterative process.

86021 Interior Design History  
6cp  
Requisite(s): 86001 Strategies for Interior Design AND 86002 The Human Environment AND 86003 Interior Design Conceptualisation AND 85502 Researching Design History  
This subject outlines the key people, spaces and activities from 1750 to the present, that come together to make up our contemporary understanding of the profession of interior design. The subject describes the economic, social and cultural context within which the discipline of interior design took shape. It also introduces key themes of this period that have been influential within the development of interior design, such as mobility, style, transience and progress. Skills in drawing, critical thinking and design analysis are cultivated.

86022 Sustainable Human Futures: Residential Environments  
6cp  
Requisite(s): 86320 Interior Materiality and Design Detail AND 86110 Interior Design Communication: Digital Media AND 86021 Interior Design History  
The subject explores the principles of sustainable life and human wellbeing using residential design as the focus. A broad approach is taken, which covers both global concerns and local approaches to the design of sustainable dwellings by exploring sustainable design principles. In particular, human wellbeing is examined to provide a philosophical, practical and spiritual understanding of both house and home, so that residential design can usefully contribute to the health and wellbeing of the users of residential interiors.

86023 Light, New Materials and Form  
6cp  
Requisite(s): 86110 Interior Design Communication: Digital Media AND 86001 Strategies for Interior Design AND 86002 The Human Environment AND 86003 Interior Design Conceptualisation AND 86320 Interior Materiality and Design Detail  
Light, materials, form and space are the primary elements that create and define human environments. Through the manipulation and enhancement of these elements the human experience can be shifted, elevated, orientated and guided. Students explore the effects that various spatial and elemental forms, lighting, colour and materials can have on the experience and interpretation of an interior space.

The subject encourages students to undertake creative investigation of the way emerging materials and systems, form-making, and lighting, can question the standard approaches to design outcomes.

86024 Hospitality Environments  
6cp  
Requisite(s): 86110 Interior Design Communication: Digital Media AND 86320 Interior Materiality and Design Detail AND 86420 Interior Design Communication AND 86001 Strategies for Interior Design AND 86002 The Human Environment AND 86003 Interior Design Conceptualisation  
Hospitality environments address varied user needs including leisure, convenience, respite, recuperation, indulgence and experience. They include hotels, motels, retreats, serviced apartments, bars, cafes, restaurants and other food services.

This subject includes the theory, application and testing of the information required to analyse design and document interiors for this use, including cultural and market considerations and influences. An understanding of the requirements of the hospitality industry is gained through site surveys and precedent studies, environmental systems, planning, and the appropriate selection of furniture, fixtures and equipment. Within this subject students are introduced collectively to the broad sector of hospitality design and then focus on a particular aspect or subgroup of this sector.

86025 Interior Elements and Design Detail  
6cp  
Requisite(s): 86110 Interior Design Communication: Digital Media AND 86320 Interior Materiality and Design Detail AND 86420 Interior Design Communication  
The practice of interior design focuses on the design of elements that define the spatial qualities of an interior. These elements sit within the larger systems and structure of the building and range in size, function and complexity.

This subject extends students’ knowledge of materials and their incorporation into structural systems. Specific study is made of the construction of interior elements such as spatial subdivision, cabinetry and built-in furniture, and introduces students to specification writing and scheduling. This subject develops a broader and more complex understanding of detailing as an expression of design.

86031 Directions in Spatial Experience  
6cp  
Requisite(s): 85503 Design Thinking AND 86110 Interior Design Communication: Digital Media AND 86320 Interior Materiality and Design Detail AND 86420 Interior Design Communication AND 86002 The Human Environment AND 86023 Light, New Materials and Form AND 86001 Strategies for Interior Design AND 86502 Researching Design History AND 86003 Interior Design Conceptualisation  
Interior design deals with the tangible and intangible realms of spatial experience. New technologies can further shape, stretch and manipulate the boundaries of this spatial experience and the ways in which people interact with material and digital space. Through the investigation of different technologies, such as advanced lighting, advanced digital representation, and interactive space, students explore and realise how these technologies can morph, shape and model interior spaces, contribute to the activities within such spaces and how these vary between interior environments.

Students undertake a generic project that introduces the new technologies and their inter-relationships, followed by a focused exploration into the directions of one of the selected technologies: interior lighting design, advanced digital representation or interactive space.

86041 Interior Design Major Project: Research and Conceptualisation  
12cp  
Requisite(s): 85502 Researching Design History AND 85503 Design Thinking AND 85701 Research Based Designing  
Good designing necessarily involves research. Design research ranges from that which addresses issues of general concern within the field of design, to that which is particular to a proposed design project. Much design research belongs somewhere between these two objectives, serving both to further the general understanding of the designer and to inform a particular design.
Through the design studies subjects completed in years one, two and three of their degree program, all students have been introduced to a range of design methods. These include strategies for research about design, research for design, and research through design. In this final year subject they draw upon these methods to construct a research program that informs and inspires the conceptualisation process for their major design project. In this subject it is intended that research and conceptualisation go hand in hand. This research and conceptualisation process is undertaken independently, mentored by a supervising member of academic staff. Students are expected to display initiative in developing and pursuing their project, and to demonstrate their capacity to arrive at understandings that can significantly enhance the sophistication with which they approach their major design project.

**86042 Interior Design Professional Project**

12cp
Requisite(s): 86160 Corporate Environments AND 86213 Interpreting Cultural Space AND 86031 Directions in Spatial Experience AND 86150 Consumer Environments

This subject provides a framework within which students further develop and refine their understanding of practice and their capabilities to enter practice. Through work experience or observation students investigate advanced communication strategies and approaches to folio presentation and marketing used within interior design practice, including web, digital and multimedia. The students use the insights gained from their experience or observation of practice to inform the development of an advanced strategy for communicating their design response to a competition or industry brief. This response is developed to the level of a professional project presentation and is then translated into a digital folio piece.

**86043 Interior Design Major Project: Realisation**

12cp
Requisite(s): 86160 Corporate Environments AND 86213 Interpreting Cultural Space AND 86031 Directions in Spatial Experience AND 86150 Consumer Environments

In response to a detailed design brief, supported by previous research, students explore an established design concept, and through this exploration develop and realise an innovative, holistic and professional design solution to a complex design problem within the diverse discipline of interior design. The solution includes aspects of feasibility and developed rationales for design approaches and strategies. This subject requires students to undertake self-directed study, guided by a supervisor, and informed by their professional capabilities and knowledge. Students are required to undertake critical analysis, synthesis and reflective evaluation as the intellectual basis of their working methodology.

**86044 Independent Study**

6cp
Undergraduate

Interior design covers a diverse and complex range of issues dealing with the human condition and the built environment. Due to this diversity and complexity, practitioners generally specialise within a sector of the industry. This subject offers students the opportunity to gain a highly developed and detailed understanding of a specialised or specific area of interior design practice. Entry into this subject is based on the capabilities of the individual student and the appropriateness of the proposed study. Students engage with a specific project through a supervised self-directed learning contract that offers a flexible learning approach. Projects may respond to community and UTS: Design, Architecture and Building needs or to the individual student’s preferred direction in his or her academic and career development. This subject may only be undertaken following consultation with and approval by the course director.

**Typical availability**

Autumn semester, City campus
Spring semester, City campus

**86110 Interior Design Communication: Digital Media**

6cp
Undergraduate

Computer generated drawing is an intrinsic method of communication within design practice, for the exploration, testing, communication, visualisation and documentation of design ideas and intentions. Within a computer lab environment, students develop skills and understanding of the principles and applications of CAD programs, together with an introduction to other graphic software packages that are directly related to the communication of interior design concepts and projects.

A foundation in the principles and applications of CAD and graphic programs allows students to apply this understanding to the use of other digital platforms.

**Typical availability**

Spring semester, City campus

**86112 Design Studio: Experimentations**

12cp

Experimentation in thinking and practice is central to the development of an individual spatial design language and theoretical position that should be reflected in the student’s processes and outcomes. In applying previous knowledge of techniques and strategies in the forming and transformation of space as a process for experimentation, this subject investigates the creative possibilities of experimentation as a powerful tool in generating both form and the re/shaping of space to address formal constraints in both propositional and pragmatic student projects.

The design studio constitutes the primary vehicle for student learning and development throughout the Interior and Spatial Design program. At the beginning of semester, students choose a studio that has been presented by a studio leader who outlines the brief, program, theoretical and historical framework. While the scope of subject can differ, all projects are framed by the common theme of experimentation. Studios combine design tutorials, lectures, workshops, symposia, presentations and critical feedback.

**86113 Context: Experimentations**

6cp

This subject allows students to develop practical experience in explorative, analytical and representational techniques integral to the spatial design processes used in the forming and transformation of space. It includes sketching, photography, lighting and physical and virtual modelling, which feed into the framework of 86112 Design Studio: Experimentations. The learning processes throughout the semester include intensives, workshops, seminars, symposia and exhibitions.

**86114 Context: Inhabitations**

6cp

This subject examines and explores the possibilities that new material and fabrication techniques give to interior and spatial design. Students develop an understanding of and practical experience in advanced digital fabrication methods as well as material techniques (such as lighting and acoustics) in the formation and transformation of spaces. The 'Context' subjects are divided in two parts, Techniques and Knowledge, which feed back into the framework of 86529 Design Studio: Inhabitations. The subject employs a diversity of learning processes throughout the semester that include intensives and workshops, seminars, panel sessions and events.

**86133 Interior Systems and Design Detail**

6cp


Undergraduate

This subject enhances the student’s understanding of building systems and details used in interior spaces. Within an adaptive re-use context, students look at the ways materials, interior elements, construction systems, service systems and technology systems are related to each other and integrated to satisfy project and site-specific design requirements. By understanding the particular application of building systems and details, students gain the knowledge to appropriately design and detail interior projects. Specific studies are made on building enclosures, structural elements, HVAC systems, FF&E (furniture, fittings and equipment), and the Building Code of Australia and Australian Standards with a focus on contract documentation.
Typical availability
Autumn semester, City campus

Spring semester, City campus

86150 Consumer Environments
6cp

Undergraduate

This subject explores the design of tangible and intangible communication environments. This includes tangible channel environments represented by stores, shopping centres and service venues, and intangible channels such as new media and the internet.

The application of marketing theory and the notion of brand and its realisation within these environments is explored through a series of design projects. Conceptual strategy, concept design, client presentation techniques and contract documents including working drawings are included within the assessment.

Typical availability
Autumn semester, City campus
Spring semester, City campus

86160 Corporate Environments
6cp
Requisites[s]: 86021 Interior Design History AND 86022 Sustainable Human Futures: Residential Environments AND 86023 Light, New Materials and Form AND 86024 Hospitality Environments AND 86025 Interior Elements and Design Detail AND 85503 Design Thinking

Undergraduate

The concept of what is a work environment is constantly changing in response to the development of new technologies, global markets and work practices. The predominant focus of this subject is on corporate environments and the considerations and strategies involved in the design of interior work environments that satisfy the interests of corporations and individual workers.

These considerations include three dimensional branding, corporate culture, operational planning, growth, facilities management, facilitation of work processes, flexibility and adaptability and sustainable approaches.

Typical availability
Autumn semester, City campus
Spring semester, City campus

86190 Special Industry Project
6cp
Requisites[s]: 86000 Interior Methodology and Space AND 86420 Interior Design Communication AND 86320 Interior Materiality and Design Detail AND 86120 Interior Identity and Space AND 86110 Interior Design Communication: Digital Media AND 86111 Interior Technology

Undergraduate

This subject requires students to explore beyond their basic understanding of the selected subject matter within Industry subjects. It is offered only to third-year students who have completed all prerequisites in the list of Interior Industry subjects and who are capable of being involved in independent study. Students explore a particular area of interest related to Industry subjects through a self-directed learning contract. This flexible learning approach allows for the student to further examine this area of study in greater detail, or to explore another issue relevant to the interior design industry that has an application to his or her academic and career development. Projects that may be offered may respond to special conditions within the community and/or faculty. The Interior Design Director of Program will appoint an academic supervisor for the Special Industry Projects. The range of projects is limited to the capacity of the program and the academic supervisor to facilitate adequate study conditions and to offer support to the students.

Typical availability
Autumn semester, City campus

Summer session, City campus

86213 Interpreting Cultural Space
6cp

Undergraduate

This subject approaches the understanding of diverse cultural spaces through contemporary theories of interpretation. Current and influential interpretations of various cultural spaces, especially those shaped by the world’s major religions and by non-European peoples, are presented. Through a series of lectures, seminars and interpretive projects, students are introduced to the diversity of spatial understandings that inform different cultures, both across the world and within a multicultural society. The challenges and possibilities for design within a multicultural world are discussed and engaged with.

86221 Context: Explorations
6cp

The subject provides students with a deeper understanding and ability to integrate and interrelate traditional analogue techniques with multiple software solutions including parametric modelling, remote sensing, motion capture and data visualisation, output through digital hardware that could include advanced digital fabrication, rapid prototyping, and laser cutting.

This subject is divided into two parts, technique and discourse. Both feed directly into the framework of the 86531 Design Studio: Explorations. The learning processes throughout the semester include intensives, workshops, seminars, symposia and exhibitions.

86222 Context: Interdisciplinary
6cp

For subject description, contact UTS: Design, Architecture and Building.

86223 Design Studio: Industry
12cp

This studio introduces students to the negotiation of spatial outcomes through community-based and collaborative design approaches. Students take part in a design project, learning professional practice skills in documentation, communication, negotiation with stakeholders and construction. The studio focuses on the student's ability to generate design propositions across a diverse range of design scenarios and negotiate final propositions with multiple stakeholders.

The design studios constitute the core of teaching and learning throughout the Interior and Spatial Design program. Design projects are framed within a theoretical discourse and positioning within the studio environment. At the beginning of semester students choose from a selection of projects presented by staff. Projects aim to build spatial intelligence and innovate environments through thoughtful and rigorous individual design processes. Over the three projects students develop their own theoretical positions.

Projects have common objectives and framing in the studios, with students working alongside studio leaders on specific approaches and design thinking. Each studio incorporates a specified history and theory component. Studios involve a combination of design tutorials and lectures, workshops and intensive studios, and presentations and panel feedback sessions.

86320 Interior Materiality and Design Detail
6cp

Undergraduate

Materials are the physical interface that informs us about our surroundings and influences how we experience a particular environment. Through the study of materials and sustainable principles, students develop an understanding of how the behaviour, performance and aesthetic qualities of materials inform material selection in interior design. Students develop a generic vocabulary...
of materials and structures by exploring these key criteria and how they interrelate. Through lectures, seminars, workshops and tutorials, students develop the ability to communicate design ideas and construction through materials boards, orthographic drawing, model making, detailing and CAD.

**Typical availability**
Autumn semester, City campus

**86321 Design Studio: Investigation**
12cp
This studio focuses on self-directed research, where students develop strategies and practices that form the basis of their culminating honours project. Students are encouraged to draw from the breadth of knowledge gained in their undergraduate study in order to define an individual theoretical position with a clear understanding of the context in which they position themselves. The outcome from this studio is the conceptual thinking, design research and project proposal for the students final design studio (86400 Design Studio: Realisation). Students are expected to display initiative in developing and pursuing their project, and to demonstrate their capacity to arrive at understandings that can significantly enhance the sophistication with which they approach their major design project.

**86322 Design Studio: Directions**
12cp
This studio operates in tandem with 86321 Design Studio: Investigation, allowing students to test and interrogate their ideas through a series of design projects. Leading professionals are invited to run projects in intensive modules, focusing on their specific area of expertise. This allows for the integration of professional practices in areas such as fabrication technologies, prototyping, high-level conceptualisation and creative thinking, and experimental spatial construction to be part of a student’s frame of reference. Students are challenged to engage with these new processes in a rigorous and professional manner.

Projects are particular to each year, carefully curated and coordinated to ensure their relationship and value to students’ final projects.

**86400 Design Studio: Realisation**
24cp
In response to a design brief supported by the research accumulated and examined in the first semester, students explore, develop and realise an innovative, holistic and professional design solution to a complex design problem within the diverse field of interior and spatial design. This subject requires students to undertake self-directed study supported by class tutorials and presentations. Students are required to undertake critical analysis, synthesis and reflective evaluation as the intellectual basis of their working methodology. The final design outcome is visually and verbally presented to and examined by a panel of experts, comprised of academics and practitioners.

**86420 Interior Design Communication**
6cp
Undergraduate
For interior designers the issue of communication is vitally important and requires a clear understanding of the representation of ideas. These ideas, in order to be understood, need to be visualized by the designer and in turn expressed through various levels of communication to other designers, clients, consultants, project managers, developers, contractors and users. This subject focuses on the development of skills in free drawing/illustration, measured drawing, three dimensional representation and model making. Multiple approaches to communication skills and techniques are introduced to enhance the basic skills of the student.

**Typical availability**
Autumn semester, City campus

**86529 Design Studio: Inhabititations**
12cp
This studio provides complex and challenging interior and spatial design briefs. Students incorporate research techniques and design methods derived from previous studios into cohesive design projects. Experimentation in thinking and practice is encouraged as a means toward developing an individual design approach. There is an emphasis on well-considered and crafted, finished outcomes.

The design studios constitute the core of teaching and learning throughout the Interior and Spatial Design program. Design projects are framed within a theoretical discourse and positioned within the studio environment. At the beginning of semester students choose from a selection of studios presented by staff. Projects aim to build spatial intelligence and innovate environments through thoughtful and rigorous individual design processes.

Projects have common objectives and framing in the studios, with students working alongside studio leaders on specific approaches and design thinking. Each studio incorporates a specified history and theory component. Studios involve a combination of design tutorials and lectures, workshops and intensive studios, and presentation and panel feedback sessions.

**86530 Design Studio: Performative Spaces 1**
12cp
This studio builds spatial understanding and creativity in the design of performative spaces. Engaging techniques and methods from scenography, theatre design, installation design, cinematography and media design, this studio allows students to develop design skills in working across the spectrum of performance. Analysis and experimentation focuses on relationships between narrative, space and form.

The design studios constitute the core of teaching and learning throughout the Interior and Spatial Design program. Design projects are framed within a theoretical discourse and positioning within the studio environment. Projects aim to build spatial intelligence and to innovate environments through thoughtful and rigorous individual design processes.

**86531 Design Studio: Explorations**
12cp
The subject combines prior learning with additional design tools that include strategic analysis, and system/network frameworks that support an exploration of individual themes and language applied to the proposed studio projects. Incorporating these and other design tools into the formal process of redefining the design brief, students are encouraged to negotiate spatial design outcomes that clearly articulate an individual design sensibility and a clear position within a cohesive final design project.

This subject encourages students to engage with contemporary explorative design processes focusing on formal and theoretical methods of spatial articulation. Design projects have an emphasis on the exploration of production strategies leading to new kinds of spaces and environments.

The design studio constitutes the primary vehicle for student learning and development throughout the Interior and Spatial Design program. At the beginning of semester, students choose a studio that has been presented by a studio leader who outlines the brief, program, theoretical and historical framework. While the scope of subject can differ, all projects are framed by a common theme. Studios combine design tutorials, lectures, workshops, symposia, presentations and critical feedback.

**86533 Design Studio: Performative Spaces 2**
12cp
This studio focuses on performative space with emphasis placed on its narrative, transformative and media aspects. Students undertake local and international projects and competitions. Skills, including prototyping, construction and fabrication, are acquired in order to realise projects at scales of up to 1:1.

Design projects are framed within an interdisciplinary discourse on the performative aspects of space. They are positioned within the studio environment. Projects aim to build spatial intelligence and to innovate environments through thoughtful and rigorous individual design processes.

The design studio constitutes the primary vehicle for student learning and development throughout the Interior and Spatial Design program. At the beginning of semester students choose a studio that has been presented by a studio leader who outlines the brief, program, theoretical and historical framework. While the scope of subject can differ, all projects are framed by a common theme. Studios combine design tutorials, lectures, workshops, symposia, presentations and critical feedback.

This design studio forms the second part of the Performative Spaces sub-major.
This subject requires students to develop a research project in conjunction with a supervising lecturer on a topic or an area of study that supports the student's personal direction and career orientation within design practice. Topics must relate to issues of interior design (e.g. its practice, theory, philosophy, history) or to related issues such as environmental systems or design phenomena. These topics may form the basis of the student's major project topic in the second semester. Every student investigates a chosen topic and prepares a written paper of 8000-10,000 words. It is expected that the paper demonstrates a high standard of research and appropriate standard of referencing and expression. The text may be supported by visual material.

Typical availability
Autumn semester, City campus

86780 Interior Design Research Dissertation
6cp
Requisites: 86000 Interior Methodology and Space AND 86420 Interior Design Communication AND 86320 Interior Materiality and Design Detail AND 86120 Interior Identity and Space AND 86110 Interior Design Communication: Digital Media AND 86111 Interior Technology

This subject requires students to develop a research project in conjunction with a supervising lecturer on a topic or an area of study that supports the student's personal direction and career orientation within design practice. Topics must relate to issues of interior design (e.g. its practice, theory, philosophy, history) or to related issues such as environmental systems or design phenomena. These topics may form the basis of the student's major project topic in the second semester. Every student investigates a chosen topic and prepares a written paper of 8000-10,000 words. It is expected that the paper demonstrates a high standard of research and appropriate standard of referencing and expression. The text may be supported by visual material.

Typical availability
Spring semester, City campus

87007 VC Technology: Pre-press and Print Production
6cp
Requisites: 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

Designers are expected to handle a wide range of technical issues when preparing their designs for print. Before the development of Macintosh computers and PCs, prepress tasks such as scanning, trapping, imposition and colour correction were performed exclusively by skilled specialists working manually or on very expensive proprietary systems. Although some of these tasks are now done with inexpensive software programs, the designer is often responsible for the specialist techniques. It is important to understand these processes in order to avoid costly errors and to get the best results on any particular design job. This subject aims to give practical experience in the problems involved, and the solutions available, in preparing files for print, and to develop proficiency in the relevant software packages.

Typical availability
Summer session, City campus

87100 VC Project: Ways of Seeing
6cp
Undergraduate

In this subject, students investigate relationships between graphic form and perceptual experience through studio projects. Students explore the creative possibilities of figure and ground through a series of drawing exercises. Issues of composition and the integration of image and text are explored with reference to the role that physical and media-generated images with the aim of developing their understanding of themselves, of others, and of the world.

Typical availability
Autumn semester, City campus

87117 VC Technology: Visible Language
6cp
Undergraduate

The subject introduces the historical and contemporary design, production and application of typographic forms as the visual extension and expression of the spoken word and written text. The design and production of letterforms and typefaces is examined in the context of typography, a cornerstone language of visual communication.

Typical availability
Autumn semester, City campus

87118 VC Studies: Image Experimentation
6cp

The subject introduces students to the making and analysis of hand and media-generated images with the aim of developing their visual acuity. The lectures explore the technological development and contemporary uses of the image in print, photography, cinematography, animation, interactive multimedia, and the World Wide Web. Theories of semiotics and visual rhetoric are introduced as tools for analysis.

Typical availability
Autumn semester, City campus
87221 VC Studies: Histories of Visual Communication

6cp
Undergraduate

The subject examines the philosophical or other theories that have shaped contemporary visual communication design. Students gain an understanding of visual culture and the impact of contemporary thought on the design of visual communication. Discussion covers topics raised by modernism, deconstruction and post-modernism.

Typical availability
Spring semester, City campus

87222 VC Project: Symbols and Systems

6cp
Undergraduate

This subject explores the historical development and contemporary applications of pictographic, iconographic and ideographic symbols; the use and value of symbolic and metaphoric imagery; grouping, framing, hierarchy and narrative sequence as visual systems; and the role of user studies in visual communication.

Typical availability
Spring semester, City campus

87333 VC Technology: Typography, Text and Form

6cp
Undergraduate

This subject advances students’ knowledge and skill in the design and production of words and texts as well as the design of individual letterforms and typefaces. Following on from VC Technology: Visible Language, this subject overviews the historical development of written languages in the context of technological change, and critically examines contemporary applications of typographic forms. Through lectures and studio-practice, students achieve a progressive level of literacy in visual technologies and issues such as figure/ground relationships, hierarchical structures, spatial organisation, text setting for legibility and readability, typographic detailing of headline copy as well as individual letterforms.

Students are encouraged to integrate theory and practice, with theoretical issues presented and critically analysed in lectures, then personally researched through practical investigation. Knowledge and skills gained in this subject support the examination and processing of typographic forms and applications.

Typical availability
Spring semester, City campus

87335 VC Project: Sequence and Narrative

6cp
Requisite(s): 87100 VC Project: Ways of Seeing AND 87222 VC Project: Symbols and Systems
Undergraduate

In this subject, students gain experience in researching and generating ideas. The lectures focus on the historical evolution and contemporary state of design and production technologies in the media. Project work asks students to explore the pictorial representation of movement and narrative in its still and moving-image forms: in cartoons, animation, film, and video. Students are able to develop their skill in storyboarding ideas for these various forms.

Typical availability
Autumn semester, City campus

87441 VC Studies: Contexts of Visual Communication

6cp
Requisite(s): 87118 VC Studies: Image Experimentation AND 87221 VC Studies: Histories of Visual Communication
Undergraduate

This subject looks at a number of contemporary theories for analysing the visual image and its uses in contemporary culture and design practice. It takes students through several research approaches for visual communication concept generation. Students discover through research the uses for which visual images are produced and the cultural and environmental consequences of their production.

Typical availability
Spring semester, City campus

87443 VC Project: Typography in Context

6cp
Requisite(s): 87118 VC Studies: Image Experimentation AND 87333 VC Technology: Typography, Text and Form
Undergraduate

This subject introduces topics in contemporary typographic practice. Students are required to undertake or develop: empirical research on reading habits; intelligent analysis of written texts; a highly refined awareness of typographic detailing leading to the processing and execution of sophisticated typography and print design. The topics of legibility, readability, communication-interface and navigation systems in print design are covered. Computer lab practice in relevant software develops the essential skills in synthesis of typography and images required for later subjects.

Typical availability
Autumn semester, City campus

87445 VC Project: Visualising Experience

6cp
Requisite(s): 87100 VC Project: Ways of Seeing AND 87222 VC Project: Symbols and Systems
Undergraduate

In this subject students explore the role that visual communication designers play in the visualisation of complex design projects. Students are encouraged to examine a range of ideas that inform traditional and contemporary visual presentations. Students engage in the research and analysis of complex projects, that may include exhibition design, environmental graphics, urban interventions and interactive/responsive environments, developing schematic representations that address a range of perspectives that a viewer might bring to their engagement with a project proposal.

Typical availability
Spring semester, City campus

87447 VC Technology: Motion Graphics

6cp

This subject introduces students to the design and production of motion graphics. The expressive potential of relationships between graphic elements, time and motion is explored. Fundamental concepts of image development, typographic design, visual composition and editing are addressed. Students engage in experimental production using relevant computing technologies.

Typical availability
Spring semester, City campus

87500 VC Special Project

6cp
Requisite(s): 87335 VC Project: Sequence and Narrative AND 87445 VC Project: Visualising Experience
Undergraduate

This subject may be taken in lieu of 87555 VC Project: Design Practice or 87665 VC Project: The Community. Students require approval from the visual communication course director to enrol in this subject. The subject is designed to enable students to participate in independent learning opportunities relevant to visual communication research and/or practice. Such opportunities may include but are not limited to:

- visual-communication competitions
- industry placement internships
- master-class projects run by leading industry professionals
- live external visual communication projects
- self-initiated projects
- University-initiated projects.

The range of projects is limited by internal and external availability, the capacity of the program to facilitate appropriate study conditions, and the capacity of the program and/or external body to provide appropriate support to students. Learning is largely independent and self-directed and, in most instances, is framed by a detailed and pertinent learning contract.

Access conditions are available in the individual subject descriptions in the online handbook.
87539 VC Technology: Introduction to Web Media
6cp
Requisite(s): 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

The internet is now a part of everyday life, enabling people around the world to communicate with each other in a multitude of ways. From e-learning and banking, to social networks, through to integrated marketing campaigns, it offers a unique set of design issues to be overcome: from the limits of HTML, CSS and cross-browser support, to an understanding of bandwidth constraints and server load.

In a professional context websites are often produced and maintained with a team of programmers and others who do not necessarily appreciate the role of design. The role itself has many faces; interface design, information design, interaction design, etc.

This subject encourages versatility in the solution of technical problems encountered when designing web solutions. Students gain an understanding of the current work practices involved in web design, including copyright and ethics. Students gain hands-on experience working with web development applications and the publishing process.

Typical availability
Summer session, City campus

87549 VC Technology: Introduction to Interactive Media
6cp
Requisite(s): 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

Designers are now expected to deal with a wide range of technological tools and the constraints inherent to them, particularly in preparing work for use on CD-ROMs and the web. They must be able to deliver designs for the digital realm where file sizes often make or break the performance of the work. This subject gives a grounding in the problems and techniques involved in preparing interactive solutions for CD-ROM delivery. It encourages versatility in the solution of technical problems encountered when designing interactive solutions for CD-ROMs, etc. Students gain an understanding of current work practices involved in these media, including copyright ethics and critical analysis of the issues involved. Students get hands-on practical experience of relevant software (Macromedia Director, Photoshop, Flash and Fireworks).

Typical availability
Autumn semester, City campus
May be run in intensive mode in Summer or Winter session.

87551 VC Studies: Concepts of Professionalism
6cp
Requisite(s): 87441 VC Studies: Contexts of Visual Communication
Undergraduate

This subject introduces students to a variety of views and critiques of professionalism in visual communication. Lectures may cover analytical and critical approaches to design and production in professional visual communication practice; the role and responsibilities of the professional designer; professional case studies; business management and accounting; preparing for employment; legalities and liabilities; the client/designer relationship; the structure of work practices in design; and the role of professional bodies. Students research the areas of the visual communication profession that they intend to move into using research methods such as interviewing, focus groups, and quantitative data collection and analysis.

Typical availability
Autumn semester, City campus

87555 VC Project: Design Practice
6cp
Requisite(s): 87335 VC Project: Sequence and Narrative AND 87445 VC Project: Visualising Experience
Undergraduate

This subject focuses on the professional demands of visual communication practice. Students present project briefs integrating client consultation, teamwork, user studies, case studies, production sourcing, professional specification writing, pre- and post-production detailing and business. Students are called upon to research, analyse, process and present visualised concepts for complex projects real or equivalent to those undertaken in practice. This may occur in both individual and group-based projects.

Typical availability
Autumn semester, City campus

87559 VC Technology: Introduction to Video Media
6cp
Requisite(s): 87447 VC Technology: Motion Graphics AND 87443 VC Project: Typography in Context
Undergraduate

In this subject, students engage in the production (recording and capture) and post-production (compositing, colour-grading, soundtrack design) of digital video. Students are introduced to current work practices in digital video planning and production, and gain hands-on experience with the technology involved in digital video production, utilising relevant software.

Typical availability
Autumn semester, City campus
May be run in intensive mode in Summer or Winter session.

87569 VC Technology: Historical Photo Media
6cp
Requisite(s): 87447 VC Technology: Motion Graphics AND 87443 VC Project: Typography in Context
Undergraduate

Digital compositing and motion graphics involve the combination of various source elements, such as live action video, stills, text, animations and sound, to create an integrated result. Combining all of these media into a seamless whole can be a challenging technical and creative exercise. This subject enables students to further their understanding of the professional design practices and techniques developed in the prerequisite subjects.

Typical availability
Autumn semester, City campus

87631 Design Studio: Text and Image 1
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87632 Design Studio: Text and Image 2
12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87639 VC Technology: Advanced Web Media
6cp
Requisite(s): 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

This subject provides students with the opportunity to further develop their understanding of the professional framework and techniques associated with web design production that were established in 87539 VC Technology: Introduction to Web Media. Students will develop their knowledge of JavaScript programming language, which is used for web interface behaviour, and further develop their knowledge of Dreamweaver software. Students are encouraged to integrate theory and practice and to experiment. Whenever possible, projects are introduced that require students to integrate language and image in multimedia or other presentations, and to collaborate in research.

Typical availability
Spring semester, City campus
May be run in intensive mode in Summer or Winter session.
87649 VC Technology: Advanced Interactive Media

6cp
Requisite(s): 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

This subject enables students to further their understanding of the professional framework and techniques associated with interactive design production. Students extend their knowledge of Flash and Fireworks but focus on advanced Lingo programming for Macromedia Director. Students are encouraged to integrate theory and practice and to experiment. Whenever possible, projects are introduced that require students to integrate language and image in multimedia or other presentations, and to collaborate in research.

Typical availability

Spring semester, City campus
May be run in intensive mode in Summer or Winter session.

87659 VC Technology: Advanced Video Media

6cp
Requisite(s): 87447 VC Technology: Motion Graphics AND 87443 VC Project: Typography in Context
Undergraduate

Digital compositing and motion graphics involve the combination of various source elements, such as live action video, stills, text, animations and sound, to create an integrated result. Combining all of these media into a seamless whole can be a challenging technical and creative exercise. This subject enables students to further their understanding of the professional design practices and techniques developed in the prerequisite subjects.

Typical availability

Spring semester, City campus
May be run in intensive mode in Summer or Winter session.

87665 VC Project: The Community

6cp
Requisite(s): 87335 VC Project: Sequence and Narrative AND 87445 VC Project: Visualising Experience
Undergraduate

This subject focuses on teamwork, professionalism and community service. As members of design teams, students take part in projects with real clients from community-based organisations, and learn to work at a professional level, executing designs of a professional standard. Typical project work includes client briefings and interim presentations, team and project management, user testing when feasible, product sourcing and specification, and the formal oral presentation of a visual design to the client or peer group.

Typical availability

Spring semester, City campus

87669 VC Technology: Digital Photo Media

6cp
Requisite(s): 87333 VC Technology: Typography, Text and Form AND 87443 VC Project: Typography in Context
Undergraduate

This subject explores the short history and practice of photo-based digital montage with particular reference to beliefs about what is real. The relationship between ‘photographic’ and constructed imagery is investigated. Advanced Photoshop manipulation techniques, as well as topics relating to input and output devices and resolution, are covered. Students are encouraged to reflect analytically on their practice and to experiment. Whenever possible, projects are introduced that require students to integrate language and image in multimedia or other presentations, and to collaborate in research.

Typical availability

Spring semester, City campus
May be run in intensive mode in Summer or Winter session.

87731 Design Studio: Visual Experimentations

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87773 Visualising Research

12cp
Requisite(s): 85701 Research Based Designing AND 87555 VC Project: Design Practice AND 87665 VC Project: The Community AND 87551 VC Studies: Concepts of Professionalism
Undergraduate

At this advanced level of study students articulate a research-based design project. Through engagement with a site of research/creative exploration, students are required to establish an appropriate focus for their project. Emphasis is placed on the integration of qualitative and experimental approaches to research. Designed outcomes may include print publications; a series of photographs, drawings or illustrations; a motion graphics or animated work; interactive interfaces; environmental graphics; models; visual essays; and briefing documents or reports.

Students can select from a number of available project options. In some instances they may negotiate a personally directed project relevant to their academic and professional interests.

Typical availability

Autumn semester, City campus

87831 Design Studio: Visual Communication and Strategic Design

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87832 Design Studio: Design Practice

12cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87880 Major Project VC

24cp
Requisite(s): 87773 Visualising Research
There are also course requisites for this subject. See access conditions.
Undergraduate

This final project subject combines all study fields and completes study in the visual communication course. Students receive individual supervision and move through the final stage from dependence to self-directed, lifelong learner. Students develop a project that showcases their expertise and best reflects their creative and professional aspirations. Final projects can take many forms and can include books, magazines, posters, packaging, films, videos, CDs and websites. All projects require students to undertake critical analysis, synthesis and reflective evaluation as the intellectual basis of their working methodology. Students are required to independently define and address issues relating to appropriate use of technology and production processes, user testing, production scheduling and project management, and the appropriateness of design form to communicative intent. Assessment is undertaken by a panel of academics advised by external professional designers.

Typical availability

Autumn semester, City campus
Spring semester, City campus

87900 Design Research: Major Project VC

24cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87931 VC Extensions A

6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

87932 VC Extensions B

6cp
Further information on this subject is available from UTS: Design, Architecture and Building.
Rapid Prototyping  OR  88001 Object and Accessory Design 3: Soft tooling and Rapid Prototyping
6cp
Undergraduate
The design of small, low function, high aesthetic products and accessories underlies the start up of many small design-oriented businesses whose main focus is the design of this type of consumer product. Companies such as Fink Design, Mambo, Dinosaur Designs, etc., have successfully built on their understanding of market and manufacture to the point where they have international reputations and market share. Understanding what makes a design attractive, feasible, and economic to manufacture on a low threshold basis is fundamental to success or failure in this endeavour. This subject can be seen as a ‘foundation course’ in understanding the complexities of design proportion, form and visualisation. The subject aims at building the design and design communication skills of participating students through a range of 2D graphic and 3D physical modelling exercises.

Typical availability
Autumn semester, City campus

88001 Object and Accessory Design 3: Soft Tooling and Rapid Prototyping
6cp
Requisites: 88300 Object and Accessory Design 2: The Cast Object OR 88002 Object and Accessory Design 2: The Cast Object
Undergraduate
The design of small, low function, high aesthetic products and accessories underlies the start up of many small design-oriented businesses whose main focus is the design of small high aesthetic-low function objects and accessories. Companies such as Fink Design, Mambo, Dinosaur Designs, etc., have successfully built on their understanding of market and manufacture to the point where they have international reputations and market share. Understanding what makes a design attractive, feasible, and economic to manufacture on a low threshold basis is fundamental to success or failure in this endeavour.

Typical availability
Spring semester, City campus

88002 Object and Accessory Design 2: The Cast Object
6cp
Requisites: 88100 Object and Accessory Design 1: Foundations OR 88300 Object and Accessory Design 1: Foundations
Undergraduate
The design of small, low function, high aesthetic products and accessories underlies the start up of many small design-oriented businesses whose main focus is the design of this type of consumer product. Companies such as Fink Design, Mambo, Dinosaur Designs, etc., have successfully built on their understanding of market and manufacture to the point where they have international reputations and market share. Understanding what makes a design attractive, feasible, and economic to manufacture on a low threshold basis is fundamental to success or failure in this endeavour.

Typical availability
Autumn semester, City campus

88003 Object and Accessory Design 4: Capstone Project
6cp
Requisites: 88200 Object and Accessory Design 3: Soft Tooling and Rapid Prototyping OR 88001 Object and Accessory Design 3: Soft Tooling and Rapid Prototyping
Undergraduate
As a major project, the subject aims to bring together the skills developed over the preceding three semesters while at the same time giving students the freedom to create, develop and have manufactured (or manufacture themselves, if appropriate) an object or accessory using either the manufacturing processes studied in earlier semesters or creating a process (or processes) which they have researched themselves. Guest lectures by designers involved in the production, marketing and sale of small objects back up the student’s own research into areas of interest.

Typical availability
Spring semester, City campus

88004 Textiles: Print
6cp
Undergraduate
This subject introduces students to the principles of textile print and pattern. A series of drawing workshops introduce students to creative approaches to print design through experimentation in mark and image making. The emphasis is on creative exploration and development of textile ideas in original and thoughtful ways; students develop original artwork and explore inventive scale and imagery in relation to textiles. Students are introduced to methods and techniques used in the fashion and textile industries to generate print designs, including textile repeat systems, placement prints, digital and screen-printing methods. This subject introduces students to the fundamental techniques of creating print repeats and students learn how to prepare artwork for patterned repeat and large-scale textile production. Students also learn how to design and engineer placement prints for the body. An emphasis throughout the subject is placed on a professional and sustainable print room practice.

Typical availability
Spring semester, City campus

88005 Textiles: Installation
6cp
Undergraduate
This subject introduces students to the principles of dye, colour and resist patterning as they relate to fashion textiles. Through a series of dye workshops, students are introduced to both traditional and contemporary dye techniques and are encouraged to investigate innovative approaches to colouring and patterning cloth. In studios, students experiment with natural dyes, mordants and commercial dyes including acid and reactive dyes. Students explore rich cultural textile histories including the ancient arts of Japanese Shibori and Indigo dyeing. This subject introduces students to methods of generating resist textile patterning through techniques such as binding, stitching, tying and pleating. The studio explores natural fibers and fabrics and their relationship to dye techniques. Through material experimentation, students develop textile concepts and colour sensibilities in a sophisticated and individual way. An emphasis throughout the subject is placed on a professional and sustainable print room practice.

Typical availability
Spring semester, City campus

88006 Textiles: Dye Methods
6cp
Undergraduate
This subject introduces students to the principles of dye, colour and resist patterning as they relate to fashion textiles. Through a series of dye workshops, students are introduced to both traditional and contemporary dye techniques and are encouraged to investigate innovative approaches to colouring and patterning cloth. In studios, students experiment with natural dyes, mordants and commercial dyes including acid and reactive dyes. Students explore rich cultural textile histories including the ancient arts of Japanese Shibori and Indigo dyeing. This subject introduces students to methods of generating resist textile patterning through techniques such as binding, stitching, tying and pleating. The studio explores natural fibers and fabrics and their relationship to dye techniques. Through material experimentation, students develop textile concepts and colour sensibilities in a sophisticated and individual way. An emphasis throughout the subject is placed on a professional and sustainable print room practice.

Typical availability
Spring semester, City campus

88007 Textiles: Surface Form
6cp
Undergraduate
This subject introduces students to three-dimensional textiles through an in-depth exploration of thermoplastic and other surface form techniques. Thermoplastic techniques are widely used in innovative textiles and inventive applications. Through applications of heat shaping, synthetics can be manipulated to permanently memorise...
shape or surface texture. In studio, students experiment with a variety of thermoplastic techniques as a means to discover new pleat geometries and design potential in sculpted surfaces. Other surface form techniques that are explored in this subject include bonded fabric applications such as felt making, and experimental knitting techniques, with the emphasis on technical textile innovation. In studio, students are introduced to the work of key contemporary textile designers. An emphasis throughout the subject is placed on a professional and sustainable studio practice.

Typical availability
Autumn semester, City campus

88008 A Genealogy of Digital Photography
6cp
Further information about this subject is available from UT斯Design, Architecture and Building.

88009 Modern Places
6cp
Further information about this subject is available from UT斯Design, Architecture and Building.

88201 Animation Studio: VFX Design Introduction
12cp
This subject introduces students to the design of VFX events, pre-visualisation and the manipulation in 2D live action and 3D CGI environments. On a practical level, VFX is explored through 2D compositing—a system of building up layers of shot and digital elements to create a final image and 3D CGI, where 3D dynamic objects and figural models are modelled, rigged and animated, using computers before being rendered and composited into each shot. On a theoretical level, VFX is explored and discovered through a design lens with an understanding of the structure and composition of a narrative event and the associated aesthetic and design issues involved in object design and the creation of performative cinematic spaces.

88202 Animation Studio: VFX Design Advanced
12cp
This subject advances the student’s competency and conceptual understanding of VFX design with an emphasis on the simulation of animate and inanimate figural and non-figurial events. It builds upon 88201 Animation Studio: VFX Design Introduction in both 2D and 3D environments through advanced understanding of the camera and cinematic space including mapping and application of particle systems, data visualisation, movement capture and advanced CGI and High Dynamic Range (HDR) photographic compositing. In fostering their conceptual development, students are encouraged to explore and discover emerging and new solutions that result from technological developments through industry standard software (i.e. Nuke and Shake) with an emphasis on performative content such as theatre, event dramaturgy, dance and the performing arts.

88211 Animation Studio: Narrative Experimentations
12cp
In the context of this studio, students build on 82320 Animation Studio: Narrative Investigations, gaining greater understanding of the performative aspects of caricature, portraiture, behaviour and gesture. The subject introduces students to the fundamentals of animation narrative explored and understood through a combination of analogue and digital movement and observational capture technologies. Students discover ideas of embodied expression, abstraction and social interaction in the context of the ‘in-between’ and ‘moment’ and are encouraged to experiment with form in the visualisation of story and script ideas to enhance their creative visual animation problem-solving skills.

88212 Animation Studio: Animation Practice
12cp
In this subject students develop an individual design approach to animation practice, which fosters and encourages complex and challenging animation design projects that enable students to incorporate research and design techniques learned from previous design studios. Fostering experimentation in thinking and practice as a means for developing an individual design approach with an emphasis on well-considered and crafted outcomes, students explore the role that animation designers play in the development of complex design projects. They are encouraged to examine a range of ideas that inform traditional and contemporary animation practices.

88304 Illustration 1: Media and Techniques
6cp
Undergraduate
In this subject, students gain an understanding of illustration as a tool for communication. They are introduced to a wide range of media techniques in illustration and acquire experience of the variety of its applications. Students from different design majors find that this subject has wide-ranging relevance. Workshops, demonstrations and practical tasks are given in a range of techniques and applications.

Typical availability
Summer session, City campus

88305 Photography 1: Documentation
6cp
Undergraduate
This subject introduces the basic principles of camera and darkroom work in black and white photography. It involves an exploration of photography as a medium of observation and documentation. This is done through an examination of the genres of photo reportage and social documentary photography. Students are introduced to the basic principles of composition, 35 mm manual SLR camera functions, film exposure and development, and print enlargement.

Typical availability
Summer session, City campus

88308 Introduction to Design for 2D Animation
6cp
Undergraduate
This subject introduces students to the history, fundamental principles and theory of design for 2D film and video animation. The topics cover the history of 2D animation, genre, character and background design, timing, framing, camera techniques, animation roles and responsibilities, storyboard formats and production processes. Students do not produce finished animations in this subject.

Typical availability
Summer session, City campus

88316 Furniture Context and Language
6cp
Undergraduate
This subject focuses on the broader more contextual issues of furniture design through an analysis of space and the environment, and related human behavioural issues. Through a review of key designers and their designs throughout history, an appreciation is gained towards the precedents of design and their significance in developing new directions. Cultural analysis is undertaken to understand the impact of the dynamic change in society and its impact on furniture design. The relationship of form, function, structure and aesthetics are explored in a series of exercises and projects. An understanding of ergonomics is imparted through lectures and the design of full-scale mock-ups of projects.

Typical availability
Autumn semester, City campus

88323 Exhibition Design: Practice
6cp
Undergraduate
This subject introduces students to the specialised area of exhibition design. This is a multidisciplinary subject that brings together students to solve specific design problems through group projects and individual tasks. A series of lectures, workshops, site visits, and assignments explores the breadth of issues, skills and concerns that are involved in the practice of exhibition design. The areas of study discussed include: user studies; the role of the curator; conservation, exhibition design management, and the collaborative exhibition design process. Small-scale projects test the understanding of the key factors of the practice of exhibition design. A high level of competency in the communication areas of orthographic drawing, and 3D representation is required of students prior to entering the subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
This subject introduces students to the specialised area of design for performances in theatre spaces. Using a contemporary script as a starting point, the student learns how to design for a stage production that expresses the script through set and costume design. A series of lectures, workshops, and assignments on: the design process, the history of appropriate stage and costume design, set design, costume design, script analysis, and associated technologies is delivered to support the design project. The project tasks, through the use of a contemporary script, the understanding that the student has attained in reference to the key areas of theatre design. This is a multidisciplinary subject that brings together students to solve specific design problems through group and individual tasks.

Typical availability
Autumn semester, City campus

88404 Illustration 2: Professional Applications
6cp
Requisites: 88304 Illustration 1: Media and Techniques
Undergraduate
Continuing the prerequisite subject, students have gained an understanding of illustration techniques as a tool for communication now harness this knowledge to acquire experience designing for professional use. Workshops and practical tasks inform approaches to designing and illustrating a series of applications.

Typical availability
Winter session, City campus

88405 Photography 2: Communication
6cp
Requisites: 88305 Photography 1: Documentation
Undergraduate
This subject extends understanding of composition, exposure and development to an intermediate level. Building on the prerequisite subject, this subject goes beyond observation and documentation into the realm of photographic narratives. Students are introduced to different film types and speeds, different film developers, push and pull development of film for contrast control, and working in different lighting conditions.

Typical availability
Summer session, City campus

88408 Advanced Design for 2D Animation
6cp
Requisites: 88308 Introduction to Design for 2D Animation
Undergraduate
In this advanced subject, students learn to solve 2D animation design problems for film and television. Topics covered at an advanced level include: genre, character and background design, aesthetics, mutes and effects for film and video design, motion and timing, web applications, camera and lighting techniques, studio terminology, formats, storyboard techniques, crew roles and responsibilities, and project management. It is suitable for those students who are interested in film and video, architecture or interior design. Students produce short animation sequences in this subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

88416 Furniture Production and Materials
6cp
Undergraduate
This subject focuses on the development of the student’s understanding of production methods and materials used in the furniture design industry. This knowledge gives the student a greater confidence in designing furniture. The subject covers processes adopted by furniture designers in selecting materials based on their inevitable relationship to production systems as both a method of manipulation and an initiative directed by economic objectives. Ergonomics, as it relates to furniture design is discussed as projects are developed. Lectures on production, distribution, and assembly systems give the student a clear appreciation of manufacturing in relation to details and design. Students learn to produce appropriate documentation for production and the related connection to costing of the designs.

Typical availability
Spring semester, City campus

88424 Exhibition Design: Concepts and Strategies
6cp
Undergraduate
This subject introduces students to the specialised area of exhibition design, in particular the theoretical frameworks that underpin the design. The multi-disciplinary activity of exhibition design is reflected in the variety of students that could take this subject. A series of lectures, workshops, site visits, guest speakers, case studies and assignments explore the breadth of issues and concerns that are involved in the strategies, conceptual structures and understanding of exhibition design. The areas of study that are discussed include: historical case studies; the role of the institution in which the exhibition will be housed; conservation in relationship to context, didactic design strategies, and interpretive design strategies. Small-scale projects test the understanding of the key factors expressed in the lectures on exhibition design theory. A high level of competency in the communication areas of orthographic drawing, and 3D representation is required by the student prior to entering the subject.

Typical availability
Autumn semester, City campus

88444 Design for Stage and Theatre: Classics
6cp
Undergraduate
This subject introduces students to the specialised area of design for performances in theatre spaces. Using a classic script as a starting point, students learn how to design for a stage production which expresses the script through set and costume design. Delivered to support the design project, a series of lectures, workshops and assignments cover: the design process; the history of appropriate stage and costume design; set design; costume design; script analysis; and associated technologies. The project tests, through the use of a classic script, the understanding that the student has attained in reference to the key areas of theatre design. This is a multi-disciplinary subject that brings together students to solve specific design problems through group and individual tasks.

Typical availability
Spring semester, City campus

88503 Introduction to Production Design
6cp
Undergraduate
This subject introduces film and television production design at the conceptual level. Topics covered include film genre and mise en scène, character development, set design, on-location set dressing, approaches to model construction, camera coverage, lighting techniques and terminology, crew roles and responsibilities, storyboard formats, and concept presentation techniques. It is suitable for those students who are interested in film and video, architecture or interior design.

Typical availability
Summer session, City campus

88505 Photography 3: Fabrication
6cp
Requisites: 88405 Photography 2: Communication
Undergraduate
This subject deals with the notions of the ‘fabricated’ image under the guise of editorial portraiture, fashion and advertising photography. The conscious manipulation of spaces, places and subjects to achieve a preplanned outcome is explored. Students are introduced to colour photography, medium format camera use, portable artificial lighting, advanced available lighting techniques and the conversion of images from the analogue realm to the digital.

Typical availability
Summer session, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
88516 Furniture Industry and Development
6cp
Undergraduate
This studio-based subject is focused on the furniture industry and in developing the student's ability to clearly understand the business aspects of furniture design. The feasibility of production is discussed through project development at various scales of manufacturing. Efforts are made to provide multiple perspectives of the industry from the point-of-view of the designer, the retailer, and the manufacturer. Students are encouraged to examine the factors affecting the process of getting a product into the community. Legal constraints and information on IP protection are discussed. Concerns about marketing is discussed through case studies and site visits to manufacturers and retailers. Students gain a pragmatic and business-oriented approach to the design process.

Typical availability
Autumn semester, City campus

88525 Exhibition Design: Process-based Project
6cp
Requisite(s): 88323 Exhibition Design: Practice AND 88424 Exhibition Design: Concepts and Strategies
Undergraduate
This subject extends the student's understanding of exhibition design beyond the introductory subjects. Lectures, tutorials, site visits, and a design project allow the student to gain a deeper understanding of the complete design process faced by an exhibition designer. Students develop a clear design brief, design presentations, details, and models that express their design proposals. A high level of competency in the communication areas of orthographic drawing and 3D representation is required by students prior to entering the subject.

Typical availability
Autumn semester, City campus
Spring semester, City campus

88555 Design for Theatre: Special Performances
6cp
Undergraduate
This subject introduces students to the specialised area of design for performances in theatre spaces. Using either a classic or contemporary script and/or choreography as a starting point, students learn how to design for a stage production that expresses the performance through set and costume design. Areas of dance, opera, and performance art may form the basis for the project. A series of lectures, workshops, and assignments on the design process, the history of appropriate stage and costume design, set design, costume design, script-score analysis, and associated technologies is delivered to support the design project. The relationship to the particular musical score is discussed as appropriate. The project tests the understanding that the student has attained in reference to the key areas of theatre design, through the synthesis of a design for a special performance. This is a multidisciplinary subject that brings together students to solve specific design problems through group and individual tasks.

Typical availability
Autumn semester, City campus

88603 Advanced Production Design
6cp
Requisite(s): 88503 Introduction to Production Design
Undergraduate
This advanced subject gives experience in the kinds of conceptual problems encountered in designing for film and television. Topics covered at an advanced level include film genre and mise en scene, character development, set design, on-location set dressing, approaches to model construction, camera coverage, lighting techniques and terminology, crew roles and responsibilities, storyboard formats, and concept presentation techniques. It is suitable for those students who are interested in film and video, architecture or interior design.

Typical availability
Autumn semester, City campus
Spring semester, City campus

88605 Photography 4: Construction
6cp
Requisite(s): 88505 Photography 3: Fabrication
Undergraduate
This subject goes deeper into the topic of the constructed image by exploring the possibilities of the studio environment. It also explores the way in which people and things and sites can be represented and manipulated through studio photo-imaging. Students explore the use of advanced studio lighting techniques.

Typical availability
Spring semester, City campus

88616 Furniture Prototype
6cp
Requisite(s): (88416 Furniture Production and Materials AND 88311 Furniture Design 1) OR (8816 Furniture Industry and Development AND 88411 Furniture Design 2) OR 88316 Furniture Context and Language OR 88511 Furniture Design 3)
Undergraduate
This subject provides the capstone project for the specialisation in furniture design. It reinforces the design process particular to the discipline and takes the student from sketches through to mock-up and then final prototype. Through lectures, discussions and demonstrations, students learn about the materials and manufacturing technologies suited to their project needs. Workshop skills and knowledge are enhanced in the key areas of furniture prototype production. Critical evaluation of the design process is assessed through critiques and process journals. The final outcomes are exhibited at the end of semester.

Typical availability
Autumn semester, City campus

88617 Design Study Tour
6cp
Undergraduate
This subject offers students an opportunity to learn about the design culture of another society. Students visit another country or place within Australia and experience it through site visits, discussion, travel, dialogue, debate, observation, critique and a series of related tasks to reach a high level of understanding of the key issues driving design in the chosen environment.

Typical availability
Autumn semester, City campus
Spring semester, City campus

88619 Advanced Analogue Model Making Intensive
6cp
Undergraduate
This subject extends students' model making skills and offers a variety of intermediate/advanced techniques using diverse materials with the emphasis on the production of a physical model(s). Over two weeks of intensive workshops and discussions, students explore the various stages of the object design process through conceptual to detailed resolution, using appropriate materials and techniques. Some of the techniques covered during the subject include plywood, metal and plastic fabrication using basic hand and electric tools.

Typical availability
July session, City campus

88620 Advanced CAD Intensive
6cp
Undergraduate
This subject extends students' skills in architectural computing communications. The use of the computer is studied in this component as a tool to aid communication of design thinking in 2D documentation and 3D computer modelling. Student's technical illustration skills are extended via an introduction to a variety of architectural projections and rendering techniques. Over two weeks of intensive workshops and discussions students explore the various stages of the design documentation process through conceptual to detailed resolution, using appropriate communication techniques.
Typical availability
July session, City campus

88621 Global Studio: Interior and Spatial Design A
6cp
Further information on this subject is available from UTS:Design, Architecture and Building

88622 Global Studio: Interior and Spatial Design B
6cp
Further information on this subject is available from UTS:Design, Architecture and Building

88626 Exhibition Design: Methods of Interpretation Project
6cp
Requisite[s]: 88323 Exhibition Design: Practice AND 88424 Exhibition Design: Concepts and Strategies
Undergraduate
This subject extends the student’s understanding of exhibition design beyond the introductory subjects. Lectures, tutorials, site visits, guest speakers, and a design project allow the student to gain a deeper understanding of the range of methods and approaches that can be taken towards the relationship between the interpretation of an object and exhibition design brief. The creative and imaginative response to a brief is encouraged and students are required to produce a design presentation of their ideas.

Typical availability
Autumn semester, City campus

88666 Design for Theatre: Self-Devised Project
6cp
Requisites[es]: 2 Subjects from: 88333 Design for Stage and Theatre: Contemporary, 88444 Design for Stage and Theatre: Classics, 98555 Design for Theatre: Special Performances
Undergraduate
This subject requires the student to explore beyond their basic understanding of the earlier Design for Stage electives completed. The student is expected, through self-directed study, to develop their stage design and costume, based on their extensive research into selected text. Storyboard development, music selection, prop, set and costume design are integrated into the project. Other issues related to the overall design can be explored and are encouraged within the subject. This is a multidisciplinary subject that brings together students to discuss specific design problems through group tutorials and lectures, but with the project being an individual effort.

Typical availability
Spring semester, City campus

88831 Global Studio: Fashion and Textiles A
6cp
The Fashion and Textile program emphasises international networking and visits/excursions/study tours in building a global perspective to an individual’s practice. This subject provides students with the opportunity to immerse themselves in another design and educational culture, developing creative as well as personal maturity. A selection of global studios are offered, allowing students to undertake extensive international experience in fashion and textiles studios with students from overseas institutions. Through established relationships with international design schools, projects are undertaken with local students and practitioners.

88832 Global Studio: Fashion and Textiles B
6cp
The Fashion and Textile program emphasises international networking and visits/excursions/study tours in building a global perspective to an individual’s practice. This subject provides students with the opportunity to immerse themselves in another design and educational culture, developing creative as well as personal maturity. A selection of global studios are offered, allowing students to undertake extensive international experience in fashion and textiles studios with students from overseas institutions. Through established relationships with international design schools, projects are undertaken with local students and practitioners.

88833 Fashion Media
6cp
This subject focuses on the understanding and interplay of fashion theory and media while exploring the culture of fashion from a contemporary viewpoint. Students explore developments within print and digital media, such as fashion film and magazine editorial relevant to the consumption of the fashion process. This subject aims to stimulate and cultivate fashion communicators of the 21st century. Reflecting a shift in the fashion industries demands for multi-skilled creatives, this subject encompasses digital and new media practices to encourage reflective practice and innovative solutions within fashion media production. This subject enables students to develop a solid grounding in the theoretical and practical issues relevant to the communication and cultural understanding of the fashion debate.

88834 Experimental Fashion Making
6cp
In this subject, students are introduced to garment (pattern) making techniques that challenge traditional approaches. The subject introduces students to conceptual fashion, and the creation of garments based on innovative methods of practice. Students are encouraged to experiment with methods of making, to create garments that are the result of investigational and innovative approaches. In this subject students are introduced to experimental pattern making techniques including non-Western approaches, generative pattern creation, subtraction cutting and zero-waste pattern making techniques. The subject is focused on emergent and non-traditional practices, as a means to design innovative garment outcomes, which are the result of off-the-body techniques.

88841 Global Studio: Integrated Product Design A
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

88842 Global Studio: Integrated Product Design B
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

88871 Global Studio: Visual Communication A
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

88872 Global Studio: Visual Communication B
6cp
Further information on this subject is available from UTS: Design, Architecture and Building.

88901 Observational Photography
6cp
This subject introduces students to some of the theories, practices and histories of photo-based observational research. Unlike conventional photo-observation for sociological purposes, this subject explores the potential of these techniques for creative purposes. Students are introduced to both the analytical and communicative potential of this media.

88902 Digital Photography
6cp
This subject introduces students to some of the theories and practices of digital photography, and provides a short history of the medium. Particular emphasis is placed on issues of image veracity, manipulation and transformation. Students are introduced to a variety of digital image capture, processing and output techniques.

88903 Photographic Fabrication
6cp
This subject deals with the notions of the ‘fabricated’ image under the guise of editorial portraiture, fashion and advertising photography. The conscious manipulation of existing spaces, places and subjects to achieve a pre-planned outcome is explored. Students are introduced to colour photography, medium-format camera use, portable artificial lighting, advanced available lighting techniques and the conversion of images from the analogue realm to the digital.
88904 Photographic Construction
6cp
Requisite(s): 88903 Photographic Fabrication
This subject explores the notion of the constructed image by exploring the possibilities of the studio environment in relation to people and objects. It also examines the way in which spaces and places can be represented and manipulated through studio photo-imaging. Students are introduced to advanced studio lighting, large-format camera use, still life and tableau photography.

88911 Design for Visual Information Systems
6cp
In this subject students explore the principles involved in designing visual information systems with determined outcomes. Primary to this subject is the development of visual languages that enable complex information tasks to be translated into efficient and effective sites of communication. This is enabled by research into the cultural contexts of the outcomes and visual literacies of user communities.

88912 Histories of Visual Information Design
6cp
This subject introduces students to the histories of visual information design through a series of lectures, workshops and tutorials. The material covered provides the students with an opportunity to investigate the key moments that have defined information design, and shaped past and current practice. In this subject, information design is located predominantly within the narrative history formed by visual communication. Subsequently it is understood as a cultural practice that informs, and is informed by, the environment in which it is produced.

88913 Visual Information Project
6cp
This subject requires students to initiate and develop a visual information design project. Students are required to independently define, research and address issues relating to the communication and context of visual information systems and appropriate technologies. These systems may conform to existing modes of information design or be experimental and speculative. Research and project rationale activities should be evidenced as an information design proposal through appropriate visualisation design models, mapping and schematic presentations.

88931 Furniture Concepts
6cp
Postgraduate
This subject offers students in the furniture design major (in the Master of Design) insights into conceptual design processes for furniture designers. The subject focuses on generative design processes used in the development of original furniture designs. It equips students with advanced skills in idea generation and critical and iterative design methods through a series of studio activities, design projects and research seminars.

88941 Experience Economy
6cp
This subject introduces students to post-industrial capitalism, variously called the service economy, the information economy, the knowledge economy, the experience economy, and the support economy. Through a series of readings, seminars, observations and self-interrogations, students explore the contexts that are making branding significant, such as globalisation, quality assurance, customer relations management, human resources management, post-materialist societal values, and dematerialisation. The subject involves fieldwork investigating how businesses are packaging experiences for target audiences and the critical reflection by each student of their own consumption habits and values.

88942 Experience Branding
6cp
Requisite(s): 88941 Experience Economy
An important and rapidly growing challenge for design is to develop stimulating and strong representations of brands for commercial and not-for-profit organisations and their different products and services. This subject introduces students to the basics of experience branding and explores how design can be used to communicate organisational core values, products and services. In an integrated manner, the subject covers all areas of branding design including graphic design (2D), interior design (3D) and web design (4D). The objective is to understand how different disciplines work together and create an integrated brand experience. Special emphasis is put on the design process including research, brand strategy development and concept development. Finally, the role of branding in the wider context of society is critically discussed.

88943 Brand Strategy
6cp
Requisite(s): 88942 Experience Branding
Building on the subjects Experience Economy and Experience Branding, this subject explores the relationship between branding, strategising and the implementation of a brand design. Key themes analysed in this subject include developing an understanding how strategy drives the creation of a brand experience, how strategic planning becomes a valuable tool in the design process, how strategy fuels the strategy making process, and the relation between human resources management and brand expression. Ultimately, the subject seeks to explore how design can be used to implement a brand experience that helps clients accomplish business objectives (including those of not-for-profit organisations).

88944 Branding Project
6cp
Requisite(s): 88943 Brand Strategy
There are also course requisites for this subject. See access conditions.
This is the final subject in the Branding Design major and is held as a practical project that integrates the three previous subjects. The subject involves rebranding projects with ‘live’ clients. Students are provided with skills to assist their rebranding jobs in the areas of project management, client relations, strategy validity testing, brand user testing, quality assurance mechanisms, and presentation techniques.

88951 Future Design Strategies
6cp
Elective
Postgraduate
By its very nature, design is an activity concerned with the future. In this time of rapid transformation, with all its accompanying complexity, threats and opportunities, being aware of how change might impact on design becomes critical. This subject addresses those areas identified as likely to impact most on the design professions over the next decade. They include cultural change, globalisation, sustainability and technology advances. Students are supported in researching developments in these and other change making themes. Leading designers, design academics and futurologists join UTS staff in mapping possible future strategies for designers.

Typical availability
Autumn semester
Spring semester

88952 Design Project Specialisation
6cp
Elective
Postgraduate
Within the context of an undergraduate design project students reflect on the major issues implicit in the design task, be it commercial, social, environmental or technical. The subject is aimed at providing students with an understanding of how a design solution might impact on design becomes critical. This subject addresses those areas identified as likely to impact most on the design professions over the next decade. They include cultural change, globalisation, sustainability and technology advances. Students are supported in researching developments in these and other change making themes. Leading designers, design academics and futurologists join UTS staff in mapping possible future strategies for designers.

Typical availability
Autumn semester
Spring semester

89015 Textile and Fashion Innovation
12cp
Postgraduate
This subject enables students to investigate innovative textile and fashion concepts that explore the integration of the handmade with emerging technologies. This studio provides an ideal space for interdisciplinary collaboration through the study of current global textile, fashion and design practice. In this millennium a material revolution is taking place whereby textiles and fashion are providing designers from various disciplines the solutions for a very different
society and consumer. Market demand reflects changing cultural and social concerns and in response textiles and fashion are leading with cutting edge innovation. Underpinning these developments is a critical social consciousness towards ethical design practice and issues and questions around sustainability.

In this studio students are introduced to Electronic Fashion, Interactive Interfaces, Photo Voltaic Textiles, Biomimicry, Architectonic Structures, Smart fabrics, Nano fabrics, High Performance Textiles, Zero Waste. Students examine what meaning these emerging technologies have for future design and how they provide designers with a language and solution for a future world. Through a self-initiated project, students have the opportunity to explore their practice through an identified project brief.

Typical availability
Autumn semester, City campus

89016 Reframing Fashion and Textile Practice
12cp
Postgraduate
This subject addresses the role of the fashion designer within contemporary fashion and textile practices and explores emerging trends that point to challenges, future roles and opportunities for fashion creative practitioners. Over recent years fashion and textile design have emerged as interdisciplinary practices aligned with new modes of presentation and approaches to design activity. In this subject students undertake critical investigation of both their own practice and the broader context of contemporary fashion and/or textile practice. The investigation enables students to critically reflect on their own practice and through a series of structured research and studio activities be able to re-position fashion and textiles practices at the nexus of innovation, meaning-making and critical engagement. The aim of the subject is for students to reposition their practice for re-entry to industry or subsequent postgraduate research pathways through the identification of foci for further investigation.

Typical availability
Spring semester, City campus

89017 Fashion and Textiles Entrepreneur
12cp
Postgraduate
The primary focus of this studio lies on the student’s engagement with industry. In this context, students look to their particular area of interest and build on the knowledge and skills developed during the first two studios. In working with manufacturers, students gain valuable experience in relationship building and communication in order to realise their design. The outcome here is a realised design highly focused on their area of special interest. Within the studio, students prepare digital and physical presentation of design that demonstrates the full impact of information within the environment or application; and verbally present a completed visual presentation, together with appropriate made elements that outline the key aspects of the concept and outcome.

Typical availability
Autumn semester, City campus
Spring semester, City campus

89105 Design Activism
6cp
Postgraduate
This subject looks at the increasingly active role that design is playing within contemporary contexts of social critique and change. Students are introduced to the history of social activism in design, and to the particular contexts within which design activism is currently being pursued. Philosophical critiques of a human-centred conception of authorship and agency have important repercussions for the thinking of designers on their role as activists. This subject positions contemporary activism within post-humanist understandings of agency. Discussions and theoretical engagement foster critical understanding of the complex interaction of human and non-human, material and immaterial, memory, expectation, hope and experience within the unfolding social and political histories of designed things.

Typical availability
Spring semester, City campus

89106 Researching Contexts
6cp
Postgraduate
This subject introduces students to experimental design-research practices using different technologies to elicit aspects of the contexts for which designers design. The technologies used enable these contexts to be explored through audio, visual and textual dimensions. Students gain skills in the analysis of ethnographic research data using grounded theory and phenomenography, in addition to visual research methods. Such design research practices foster understanding of, and connection with, the contexts that designed things participate in, enrich, and often transform. The emphasis of this subject is on understanding through making, as the process of data analysis enables the researched context to ‘talk back’ to the designer. Outcomes include designed communications that convey the particular understanding of context that each student has arrived at through their research process.

Typical availability
Spring semester, City campus

89107 Innovation and Entrepreneurship: A
6cp
Postgraduate
This subject explores the potential of design thinking as a generator of innovative and entrepreneurial strategies, practices and designed things through interdisciplinary innovation challenges, and developing entrepreneurial outcomes of varying scale and context. Students are required to radically cross-boundaries of their known discipline to contribute to diverse projects through the application of corporate and academic research and development methods. Students inherently cooperate within complex systems, responding to client requirements and considering the effect of their choices on outcomes throughout the process.

Typical availability
Autumn semester, City campus

89108 Technology Workshop: Creative Play
6cp
Postgraduate
The Technology Workshops offer students opportunities to engage with diverse tools, processes and materialities of production. Oriented to experimental practices, and to iterative exploration of the aesthetic and material effects enabled by each technology, the workshops encourage openmess to new possibilities for making. Creative Play provides for student experimentation and research into the possibilities for design enabled by selected technologies.

Typical availability
Spring semester, City campus

89109 Technology Workshop: Experimental Media
6cp
Postgraduate
The Technology Workshops offer students opportunities to engage with diverse tools, processes and materialities of production. Oriented to experimental practices, and to iterative exploration of the aesthetic and material effects enabled by each technology, the workshops encourage openness to new possibilities for making. Experimental Media focuses upon student experimentation and media investigation through selected technologies.

Typical availability
Autumn semester, City campus

89110 Engaging Texts: Interpreting Contexts
6cp
Postgraduate
This subject introduces students to philosophical and theoretical lenses for interpreting the various contexts of reception within which their designs will be encountered, engaged with, experienced or consumed. ‘Engaging Texts: Interpreting Contexts’ is one of a pair of subjects that focus specifically on 'engaging texts' as a stimulus to design understanding. In these subjects students engage with texts that are or have been influential in shaping ways in which designers think about the worlds that designed things enter into and redefine. Different kinds of text, including theoretical, literary and designed texts, and texts utilising different media, are introduced.
Typical availability
Autumn semester, City campus

89111 Interactivation Studio: Autumn
12cp
Postgraduate
This studio is dedicated to the relationship between people and technology, in particular the design of interfaces connecting technological environments with their inhabitants. Interactivation is a design approach to creating distributed interfaces which enable better designed interactions in electronic ecosystems. This involves interactions in ecologies, from the intimate (on and around the body) to the spatial (rooms and buildings), to the urban/landscape scale and beyond. Examples of such intimate interfaces are phones and other objects, wearable interfaces and interactive jewellery. The spatial scale is concerned with interactive spaces (indoor parameters such as light, temperature and data flow) and buildings (interactive architectures), while the urban scale can be, for instance, interactive facades and long-range spatial information radiation including the natural landscape.

This subject covers a broad field of design and study involving a variety of disciplines. Students gain and develop knowledge and insights in human factors and artistic–conceptual thinking. The outcomes of this process involving research and design are presented in the studio in the forms of working demonstrators, interactive presentations and reflective writing.

Students are given a tailored project (1, 2 or 3 based on individual level of development, determined through prior learning) that is expanded on through their remaining Interactivation Studio subjects.

Typical availability
Autumn semester, City campus

89112 Interactivation Studio: Spring
12cp
This studio is dedicated to the relationship between people and technology, in particular the design of interfaces connecting technological environments with their inhabitants. Interactivation is a design approach to creating distributed interfaces which enable better designed interactions in electronic ecosystems. This involves interactions in ecologies, from the intimate (on and around the body) to the spatial (rooms and buildings), to the urban/landscape scale and beyond. Examples of such intimate interfaces are phones and other objects, wearable interfaces and interactive jewellery. The spatial scale is concerned with interactive spaces (indoor parameters such as light, temperature and data flow) and buildings (interactive architectures), while the urban scale can be, for instance, interactive facades and long-range spatial information radiation including the natural landscape.

This subject covers a broad field of design and study involving a variety of disciplines. Students gain and develop knowledge and insights in human factors, engineering, art and design. The subject guides individual and group development of a new type of designer who is equally confident in understanding and applying technology, human factors and artistic–conceptual thinking. The outcomes of this process involving research and design are presented in the studio in the forms of working demonstrators, interactive presentations and reflective writing.

Students complete a tailored project (1, 2 or 3 based on individual level of development, determined through prior learning) that is expanded on through their remaining Interactivation Studio subjects.

Typical availability
Spring semester, City campus

89113 Interactivation Studio: Final Project
12cp
Postgraduate
The Interactivation major is dedicated to the relationship between people and technology, in particular the design of interfaces connecting technological environments with their inhabitants. Interactivation is a design approach to creating distributed interfaces which enable better designed interactions in electronic ecosystems. This involves interactions in ecologies, from the intimate (on and around the body) to the spatial (rooms and buildings), to the urban/landscape scale and beyond. Examples of intimate interfaces are phones and other objects, wearable interfaces, and interactive jewellery. The spatial scale is concerned with interactive spaces (indoor parameters such as light, temperature and data flow) and buildings (interactive architectures), while the urban scale can encompass interactive facades and long-range spatial information radiation including the natural landscape.

This studio covers a broad field of design and study involving a variety of disciplines. Students gain and develop knowledge and insights in human factors, engineering, art and design. The subject guides individual and group development of a new type of designer who is equally confident in understanding and applying technology, human factors and artistic–conceptual thinking. The outcomes of this process involving research and design are presented in the studio in the form of working demonstrators, interactive presentations and reflective writing.

Typical availability
Autumn semester, City campus

89114 Lighting Studio: Light, Time and Change
12cp
This studio covers a broad field of design and study involving a variety of disciplines. Students gain and develop knowledge and insights in human factors, engineering, art and design. The subject guides individual and group development of a new type of designer who is equally confident in understanding and applying technology, human factors and artistic–conceptual thinking. The outcomes of this process involving research and design are presented in the studio in the forms of working demonstrators, interactive presentations and reflective writing.

Typical availability
Autumn semester, City campus

89115 Lighting Studio: Light, Materials and Space
12cp
People's conscious and subconscious mind can be manipulated and conditioned by what they see. Seeing is the response of the human perceptual system to light's interaction with surfaces and spaces. Therefore at its very basis, the lighting designer has the tools and the opportunity to recondition the mind, by determining how light interacts with the surrounds and influences the state of the perceptual system.

This studio explores ideas on designing visual environments that influence human moods and emotions, through a deep study of perceptual psychology, visual attributes and modes of appearance. The studio has a strong focus on hands-on research, experimentation, collaboration and communication; to shape participants the opportunity to cultivate and share knowledge through research, experimentation and communication; to shape and continually improve the future of the lighting design profession.

This studio is based on the model of a fictive/actual architectural lighting design project. The participants are responsible for developing and communicating their lighting design solutions for this project from initiation to final documentation over a prolonged period. The major provides a solid understanding of the physics and human factors of lighting, extensive hands-on experience, and wider context considerations relating to lighting design. It is structured to give its participants the opportunity to cultivate and share knowledge through research, experimentation, collaboration and communication. The studio provides the participants the opportunity to cultivate and share knowledge through research, experimentation, collaboration and communication; to shape and continually improve the future of the lighting design profession.

This studio is based on the model of a fictive/actual architectural lighting design project. The participants are responsible for developing and communicating their lighting design solutions for this project from initiation to final documentation over a prolonged period. The major provides a solid understanding of the physics and human factors of lighting, extensive hands-on experience, and wider context considerations relating to lighting design. It is structured to give its participants the opportunity to cultivate and share knowledge through research, experimentation, collaboration and communication; to shape and continually improve the future of the lighting design profession.

The purpose of this studio is to develop research knowledge, to engage in brief generation, establish a personal emphasis, and to take part in a larger group investigation over a prolonged period. The studio advances the skills of the participants to manage multi-faceted aspects relating to lighting design through providing them with a broad appreciation of real-life project considerations.

Typical availability
Autumn semester, City campus

89120 Sustainability, Design and Creative Futures: Being Human
12cp
Postgraduate
The purpose of this studio is to develop research knowledge, to engage in brief generation, establish a personal emphasis, and to take part in a larger group investigation over a prolonged period. The studio advances the skills of the participants to manage multi-faceted aspects relating to lighting design through providing them with a broad appreciation of real-life project considerations. Examples of themes include: globalisation; the creative economy; post-consumerism; niche design; and design for developing countries. The
themes reflect the core elements of sustainability, design and creative enterprise. The initial focus is to build up a knowledge base in the area. Students also consider their response to the theme in terms of a more specific brief. Students establish their own personal emphasis, for example: is their work design-driven or enterprise-driven?

**Typical availability**  
 Autumn semester, City campus

**89124 Experimental Visual Communications: Visualising the Invisible**  
 12cp  
 Postgraduate

In this subject students create projects that give visual form to the social, cultural, scientific or economic narratives embedded in contemporary society. Students have the opportunity to reveal stories that have yet to be realised, or create new experiences from existing stories. This can range from the pragmatic/factual to the poetic/metaphorical, and take various forms such as information design, experimental publication design, exhibition design, motion graphics, etc. The aim is to extract and communicate previously inaccessible meanings, insights and experiences through work that is speculative, provocative, and experimental. In this subject there is an emphasis on the designer as cultural agent/critic. Students are challenged to develop a critical position around an issue, and use their design skills to communicate this position in innovative, playful and challenging ways. Outcomes could be static or interactive, print or digital, objects or installations, and could incorporate sound or moving image.

**Typical availability**  
 Spring semester, City campus

**89125 Experimental Visual Communications: Final Project**  
 12cp  
 Postgraduate

The final studio requires students to create a self-initiated project that exhibits a sophisticated understanding of the potential of contemporary visual communication practice. Central to this project will be evidence of critical analysis, social engagement, reflective practice, as well as a refined visual language. Students must draw on the practical, methodological, theoretical and the technical tools they have gathered over the duration of the degree to complete a successful project. Students are individually mentored through this project by a supervisor with complementary practice-based research expertise. Projects can be static or interactive, print or digital, objects or installations, and could incorporate sound or moving image.

**Typical availability**  
 Autumn semester, City campus

**89126 Design Studio 1: Human-centred Design**  
 12cp  
 Postgraduate

This studio explores the voice of intent in relationship to the voice of experience as negotiated by the various voices of design practice. A human-centred approach to design is investigated with various scenario and persona techniques used to shift the role of the user from a recipient to one of an author of design outcomes. Various methods of analysis, including ethnography, together with approaches to design synthesis are presented to allow the students an advanced understanding of real-world projects.

**Typical availability**  
 Spring semester, City campus

**89127 Design Studio 2: Social Design Practice/Critical Reflection**  
 12cp  
 Postgraduate

This studio builds on 89126 Design Studio 1: Human-centered Design, or experiences gained in other studio majors, in order to draw a fine focus on the relationship of how design can affect social frameworks. This subject critically explores the creative challenges involved in socially responsible design. Participants learn a range of ways of negotiating cultural difference to access deeper understandings of social conditions. It focuses on a number of participatory design techniques, where designers act as facilitators of communities, helping them to identify their needs and then realise ways of satisfying their needs in socially, ecologically and economically sustainable manner. Professional designers and expert designers use reflection in different ways. This subject examines the reflection of design during the professional design process, and also the sharing of ideas, as practiced by expert designers who challenge existing habits and prejudices. Through a series of readings and projects, students learn how to implement changes to the way they design through critically reflecting on social design practice.

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
Access conditions are available in the individual subject descriptions in the online handbook.
problems. DOC methods of problem exploration and reframing are reviewed and applied to the client’s problem. Through this studio students start to develop key skills and understanding of how design processes can be employed to develop innovative solutions to crime problems.

Typical availability
Autumn semester, City campus

89152 Design for Change: Reinovigating Retail Precincts
12cp
In this studio students are required to apply various methods of problem exploration and design research to develop solutions to a current crime problem for real retail business clients. Students work on real projects, often in teams and always supported by experts in the fields of socially responsive design, environmental design, crime prevention, and retail planning.

The process requires students to develop a comprehensive understanding of the range of commercial, organisational and community drivers in the retail context including loss prevention. The challenge is to develop a design approach that addresses the various drivers, while also providing an environment less prone to crime. Working with real clients in a commercial setting requires students to develop their team and project management skills in a situation dependent on the professional delivery of design outcomes.

In this subject students undertake an applied project with a local shopping area authority (council, shopping centre) in which they draw on their design research and problem exploration skills to develop a frame and design concepts that address a crime problem and re-invigorate the precinct. Students work with a broader stakeholder group in this project that includes diverse community groups, council, police, community workers, retailers and licensees among others. It requires students to develop their skills in engaging clients and stakeholders to think about crime problems and the possibilities for declining retail precincts.

89153 Design for Change: Retail Futures
12cp
Led by the UTS interdisciplinary Designing Out Crime research centre, the focus of the subjects in this three semester studio is on creating vibrant, safe, sustainable and profitable retail environments. Students work on real projects, often in teams and always supported by experts in the fields of socially responsive design, environmental design, crime prevention, and retail planning.

Throughout the studios students work with industry partners such as retailers, supermarkets, shopping centres, industry bodies and law enforcement agencies. In this final subject of the studio, students utilise the expertise that they have developed in the previous two subjects of the studio. This expertise informs an exploration into future retail concepts and their capacity to embody the virtual and/or physical requirements that ensure positive retail experiences.

Additional information about the Designing Out Crime research centre can be found at: www.designingoutcrime.com/research-centre/projects

Typical availability
Autumn semester, City campus.

89171 Innovation and Entrepreneurship: B
6cp
Postgraduate
This subject explores the potential of design thinking as a generator of innovative and entrepreneurial strategies, practices and designed things through interdisciplinary innovation challenges, and developing entrepreneurial outcomes of varying scale and context.

Students are required to radically cross-boundaries of their known discipline to contribute to diverse projects through the application of corporate and academic research and development methods. Students inherently cooperate within complex systems, responding to client requirements and considering the effect of their choices on the project outcomes throughout the process.

In addition to Design, expertise within this subject is drawn from a variety of disciplinary fields such as Business, IT Engineering and Architecture.

Typical availability
Autumn semester, City campus.

89172 Engaging Texts: Cross-Disciplinary Conversations
6cp
Postgraduate
This subject introduces students to texts, conversations and viewpoints drawn from diverse disciplinary contexts that are of relevance to design, including philosophy, sociology, anthropology, science and technology studies, history, literature and film. It highlights the richness of understanding that can arise when texts move across disciplinary boundaries and populate other disciplinary spaces. This in one of a pair of subjects that focus specifically on ‘engaging texts’ as a stimulus to design understanding. In these subjects students engage with texts that are or have been influential in shaping ways in which designers think about the worlds that designed things enter into and redefine. Different kinds of text, including theoretical, literary and designed texts, and texts utilising different media, are introduced.

Typical availability
Autumn semester, City campus.

89173 Technology Workshop: New Poetics
6cp
Postgraduate
The Technology Workshops offer students opportunities to engage with diverse tools, processes and materialities of production. Oriented to experimental practices, and to iterative exploration of the aesthetic and material effects enabled by each technology, the workshops encourage openness to new possibilities for making. In particular, this subject focuses on the potential for production of new and different formal effects through experimentation with various technologies.

Typical availability
Autumn semester, City campus.

89200 Graphic Visualisation
6cp
Postgraduate
This subject expands the awareness and ability of students from various disciplinary backgrounds to generate ideas and develop visual narratives and to communicate these by means of the visual communication media. There is special emphasis on drawing and image-making and the development of competencies in a range of basic techniques suitable for the representation and effective visual communication of animation and design ideas and solutions, including character design, layout and storyboarding. Students are encouraged to experiment with form in the visualisation of story and script ideas and to enhance their creative visual problem-solving skills. The subject provides students with the opportunity to acquire a critical understanding of the language of visual communication using simple linear form to construct graphic narratives and sequences for the comics and animation media.

Typical availability
Autumn semester, City campus.

89201 Animation Genres Seminar
6cp
Postgraduate
This subject consists of a series of weekly lectures, screenings and seminars and the occasional master class and aims to increase the student’s knowledge of the history and theory of animation with a particular emphasis on the study of genre. A range of animation genres is examined. These include, but are not restricted to, animation production techniques such as trick films, puppet animation, claymation, cut-outs, pixilation, rotoscoping, model and toy animation, scratched and drawn animation, digital animation and cartoon animation. In addition to the study of techniques of production, this subject also analyses various animation styles and formats, including cartoon animation, Anime, television animation, animated title graphics and motion graphics, art animation, abstract and experimental animation, animated music video and animated film.
musicals, animation special effects in live-action films, animation in advertising and on the Internet, animation for mobile phone displays and computer games including hand-held game sets, Web animation, applications in architecture and design such as virtual space and buildings, children’s animation and kids TV animation. Other aspects of genre studies include issues such as self-reflective animation, cute and hyper realistic styles, animation as visual communication in instructional, informational and propaganda environments, aspects of artifice, art and ideology, entertainment, fantasy, fairy tale and myth, as well as a study of centres of production such as European, North American and Asian animation.

**Typical availability**

Spring semester, City campus

**89202 3D Digital Animation 1**

6cp

Postgraduate

This subject equips students with the basic knowledge of both the theory and operation of industry standard computer animation. Topics covered include a survey of various computer animation systems, software, production and design involving 3D digital animation. In this subject, students are expected to design and construct a three-dimensional character and environment and demonstrate these skills in the expression and movement of that character in a short animated sequence.

**Typical availability**

Spring semester, City campus

**89203 3D Digital Animation 2**

6cp

Postgraduate

This is an animation project-based subject that requires students to apply their 3D animation skills in the design and production of a short animated sequence, whilst continuing to develop and expand the basic knowledge of both the theory and operation of industry standard computer animation as learnt in 3D Digital Animation 1. The subject demands the creation and manipulation of 3D images and their appropriate application in animation production. Topics covered include advanced computer animation systems and theory, various animation software applications and digital compositing. Students are also expected to further develop animation theory skills, refine their understanding of the different types of computer graphics in animation and demonstrate advanced 3D design and production skills in animation including digital compositing.

**Typical availability**

Spring semester, City campus

**89204 2D Digital Animation**

6cp

Postgraduate

This subject provides coverage of the design and production of 2D digital animation, advanced using appropriate software. The subject also covers the theory and conceptualisation of design in computer animations for the Internet. In this subject, students are expected to understand design processes in the production of 2D animation, comprehend knowledge of relevant software, demonstrate design and production skills, acquire basic 2D animation skills, become aware of a range of possibilities and limitations of dynamic media and animation for the Internet and demonstrate appropriate design solutions for the advanced Web applications of animation.

**Typical availability**

Spring semester, City campus

**89205 Design for Three-Dimensional Computer Animation**

6cp

In this animation project-based subject, students apply their 3D animation skills acquired in 82221 Context: 3D Animation Introduction and 82321 Context: 3D Animation Advanced in the design and production of a short animated sequence, whilst developing and expanding their knowledge of both the theory and operation of industry standard computer animation, with an emphasis on rigging through Maya (or other industry equivalent) using pre-rigged characters. The subject demands the student’s creation and manipulation of 3D images and their appropriate application in animation pre-visualisations, production and post-visualisation.

**Typical availability**

Autumn semester, City campus

**89301 Design Communication and Criticism**

5cp

Postgraduate

Design is the visualising of alternative futures. Expert designers are adept at a wide range of visualisation techniques that can be used to present the same idea in different ways depending on the audience. However, design is not only visual, but also verbal, with designers discussing, evaluating, presenting and explaining design propositions. This subject aims to expand the repertoire of visual and verbal communication strategies of designers, and expand designers’ understanding of the power and limits of those strategies, particularly in cross-cultural contexts. Participants become design communication leaders by practising and critically evaluating traditional and innovative visual and verbal presentation and argumentation throughout this subject.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**89302 Practice Management and Leadership**

5cp

Postgraduate

Design is a collaborative profession that requires high-level interpersonal and entrepreneurial skills. This subject allows designers to acquire some of the management abilities needed to lead a small-to-medium-sized design firm or design department of a large firm. Through case-based learning, designers explore human resource issues, organisational studies, and change management techniques, particularly as they relate to the creative services industries. Scenario-based role-play allows designers to develop a range of negotiation, conflict management and project management capabilities. Throughout the subject, designers learn to reflect on their own leadership capacities and work styles.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**89303 Client and User-centred Designing**

5cp

Postgraduate

Expert designing involves understanding the situation into which the design will intervene. To reach these understandings, designers must be as creative in their research as in their idea generation and realisation. This subject introduces designers to the methods and strategies being used by the leading design innovation companies around the world to access the activities, values, needs and feelings of those they design for. The subject covers obtrusive and unobtrusive research, and direct and technologically-mediated interviewing. Each technique students learn about is immediately tested in live fieldwork and then translated into clear design briefs.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

**89304 Social Change Design**

5cp

Postgraduate

Designs enable people to live different sorts of lives, if they are developed out of deep understanding of those people or preferably with those people. This power can be used to develop new markets and to develop disadvantaged communities. This subject explores both commercial and social entrepreneurship by design. Participants learn a range of ways to negotiate cultural difference to access deeper understanding of marginal social practices. The subject focuses on a number of participatory design techniques, where designers act as facilitators of communities, helping them to identify and respond to their changing situations.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
In the requisites, a lower case 'c' after the subject code indicates that the subject is a corequisite.
89990 Animation Project
24cp
Postgraduate
In project work students undertake an original short piece of animation work informed by theoretical study, based on independent research and showing evidence of their professional skills and creative expertise. The project can be in any appropriate form and style of animation production. Students are also required to produce a critical rationale (of approximately 5,000 words) to accompany the project. The animation project is required to demonstrate work of a high standard with the possibility of being publicly exhibited. It must be of a length that can be reasonably completed within the time frame. In Animation Project, students work with their supervisor to negotiate the feasibility and length of their proposed project and their production schedule. In this first part of the semester, students are expected to take their project through research and script revisions to storyboard stage and into pre-production. Students are also expected to make significant progress on their rationale by mid-semester then take both this and their project through to completion. The project must show evidence that students have engaged in a lively dialogue between theoretical ideas and production practices. Students take the project from shooting, through editing, sound design and post-production. They are expected to screen work-in-progress to their supervisor and regularly report on their post-production. The completed project should demonstrate the student’s professional skills and creative expertise and the evidence of the student’s capacities as an animator. The subject is conducted by individual supervision and attendance at weekly seminars that offer students the opportunity to present their program ideas, project development and work-in-progress for critical examination.

There is also screening and discussion of short media work and the presentation of production case studies relevant to student’s own production work.

89991 Animation Project A
12cp
Postgraduate
In project work students undertake an original short piece of animation work informed by theoretical study, based on independent research and showing evidence of their professional skills and creative expertise. The project can be in any appropriate form and style of animation production. Students are also required to produce a critical rationale (of approximately 5,000 words) to accompany the project. The animation project is required to demonstrate work of a high standard with the possibility of being publicly exhibited. It must be of a length that can be reasonably completed within the time frame. In Animation Project A, students work with their supervisor to negotiate the feasibility and length of their proposed project and their production schedule. In this first semester, students are expected to take their project through research and script revisions to storyboard stage and into pre-production. Students are also expected to make significant progress on their rationale by mid-semester then take both this and their project through to completion. The project must show evidence that students have engaged in a lively dialogue between theoretical ideas and production practices. Students take the project from shooting, through editing, sound design and post-production. They are expected to screen work-in-progress to their supervisor and regularly report on their post-production. The completed project should demonstrate the student’s professional skills and creative expertise and the evidence of the student’s capacities as an animator. The subject is conducted by individual supervision and attendance at weekly seminars that offer students the opportunity to present their program ideas, project development and work-in-progress for critical examination.

There is also screening and discussion of short media work and the presentation of production case studies relevant to student’s own production work.

89992 Animation Project B
12cp
Postgraduate
Animation Project B continues the production, begun in Animation Project A, through to completion of a significant piece of quality animation, informed by theory and suitable for International exhibition, with an accompanying rationale and research document. It must show evidence that students have engaged in a lively dialogue between theoretical ideas and production practices. Students take the project from shooting, through editing, sound design and postproduction. They are expected to screen work in progress to their supervisor and regularly report on their postproduction. The completed project should demonstrate the student’s professional skills and creative expertise and the evidence of the student’s capacities as an animator. The subject is conducted by individual supervision and attendance at weekly seminars.

In this subject students are also required to submit the critical rationale of their project.

90001 Exchange Elective 1 (Information Technology)
6cp; availability: outbound international exchange students only
Undergraduate
Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

Typical availability
Autumn semester, City campus
Spring semester, City campus

90002 Exchange Elective 2 (Information Technology)
6cp; availability: outbound international exchange students only
Undergraduate
Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

Typical availability
Autumn semester, City campus
Spring semester, City campus

90003 Exchange Elective 3 (Information Technology)
6cp; availability: outbound international exchange students only
Undergraduate
Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

Typical availability
Autumn semester, City campus
Spring semester, City campus

90004 Exchange Elective 4 (Information Technology)
6cp; availability: outbound international exchange students only
Undergraduate
Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

Typical availability
Autumn semester, City campus
Spring semester, City campus

90005 Exchange Elective 5 (Information Technology)
6cp; availability: outbound international exchange students only
Undergraduate
Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

Typical availability
Autumn semester, City campus
Spring semester, City campus
their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**90006 Exchange Elective 6 (Information Technology)**

6cp; availability: outbound international exchange students only  
Undergraduate

Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**90007 Exchange Elective 7 (Information Technology)**

6cp; availability: outbound international exchange students only  
Undergraduate

Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**90008 Exchange Elective 8 (Information Technology)**

6cp; availability: outbound international exchange students only  
Undergraduate

Enrolment in this subject indicates that a student has completed an elective subject in information technology as part of the UTS international exchange program. Before outbound exchange students can enrol in this subject, the equivalent subject at the exchange partner university must be approved. For students enrolled in UTS: Information Technology courses, this approval must be sought from their program leader. For non-IT students wishing to study IT electives overseas, this approval must be sought from the UTS: Information Technology international exchange contact person.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**91104 Honours FT (Medical and Molecular Bioscience) 2**

24cp  

Study in this subject is designed to enhance the skills and knowledge necessary for research in the biological and biomedical sciences. The principal activity is an individual research project in which the student, under supervision, plans and undertakes investigation in an area of interest. The data collected are then subjected to analysis and interpretation under the guidance of the supervisor. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and develop complex arguments in detail. The findings of the research project are presented in a structured and integrated thesis, which comprises the main assessment component.

**Typical availability**

Spring semester, City campus

**91105 Honours FT (Environmental Science) 1**

24cp  

Study in this subject is designed to enhance skills and knowledge in undertaking research in environmental science. The subject comprises 12 credit points of electives in a specialist field and a 36-credit-point equivalent individual research project where the student, under supervision, defines a problem in an area of interest, and then collects, analyses and interprets data to solve this problem. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and to develop complex arguments in detail. The findings of the research project are presented in a structured and integrated thesis which comprises the main assessment component. Research ethics and scientific method are emphasised.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**91106 Honours FT (Environmental Science) 2**

24cp  

Study in this subject is designed to enhance skills and knowledge in undertaking research in environmental science. The subject comprises 12 credit points of electives in a specialist field and a 36-credit-point equivalent individual research project where the student, under supervision, defines a problem in an area of interest, and then collects, analyses and interprets data to solve this problem. Students learn to define objectives and aims, work to available time and resources, use appropriate research methods, critically assess information and to develop complex arguments in detail. The findings of the research project are presented in a structured and integrated thesis which comprises the main assessment component. Research ethics and scientific method are emphasised.

**Typical availability**

Autumn semester, City campus  
Spring semester, City campus

**91107 The Biosphere**

6cp; 5hpw

This subject provides an introduction to the science of the biosphere; a convenient grouping for all forms of life. The subject explores the environment in which life exists and how it has developed, interactions among the various components within the biosphere, and with external factors such as climate, the fundamental construct of the Earth's crust, and conditions and resources associated with land and water. Throughout the subject there is an integrated focus on the science of the biosphere and the effects of humans and their activities on the biosphere, including current issues such as climate change, sustainability and water crisis. Some of the skills that students acquire in this subject include presentation and interpretation of scientific data, and communicating science.

**Typical availability**

Autumn semester, City campus
91110 Experimental Design and Sampling

6cp; 5hpw
Requisite(s): 33116 Statistical Design and Analysis OR 33109c Statistics for Environmental Biologists

This subject demonstrates the key role of experimental design and data analysis in environmental science. It also provides a logical framework for conducting scientific research, as well as builds on the analytical skills acquired in past subjects at UTAS. By the end of this subject, students are able to design and analyse unconfounded experiments in the field and laboratory. They also have an improved knowledge of multifactor ANOVA, correlation and regression analyses and non-parametric multivariate techniques. These skills learnt in this subject are crucial for future work at UTAS and for a successful career in environmental science.

Typical availability
Autumn semester, City campus

91116 Wildlife Ecology

6cp; this subject contains a four-day field excursion
Requisite(s): 91363 Animal Behaviour and Physiology OR 91309 Biodiversity Conservation

These requisites may not apply to students in certain courses. See access conditions.

This subject covers a range of aspects including: wildlife ecology and management in Australia and worldwide; behavioural ecology of vertebrate wildlife; the ecology of threatened and endangered species; anthropogenic impacts on Australian wildlife; captive breeding programs and the role of national parks in conservation; the ecology of native and introduced pest animals; and conservation through sustainable use of wildlife.

Typical availability
Autumn semester, City campus

Note(s)
Students wishing to take this subject without the abovementioned prerequisites need to discuss it with the course director or subject coordinator before putting in an e-request.

91118 Fisheries Resources

6cp
Requisite(s): 91123 Biocomplexity OR 91153 Catchment Ecosystems

These requisites may not apply to students in certain courses. See access conditions.

Freshwater, estuarine and marine biological resources and their exploitation are examined. Problems of productivity against a background of regulations are explored, and the major management requirements for ESD of coastal and freshwater fisheries resources are addressed. NSW and Australian practices are examined in relation to best practices elsewhere. Some classes are taught in excursion mode.

Typical availability
Autumn semester, City campus

91120 GIS and Remote Sensing

6cp; availability: students must have completed 90 credit points of study in C10228
Requisite(s): 72 credit points of completed study in C10000-C19999

These requisites may not apply to students in certain courses. See access conditions.

This subject provides students with an understanding of some of the complex aspects related to the use, development and management of geographical information systems (GIS) as well as exposure to elements of remote sensing as applied to the study of natural phenomena. In the GIS stream students gain exposure to one of the most widely used GIS softwares in industry and science. In the remote sensing stream students are presented with elements of the physical principles underpinning collection of earth systems data from orbiters and the payloads on board. Experience on how to input data obtained by remote sensing (as well as other sources) into a GIS is also gained. The subject includes lectures, computer practicals and discussion boards. Selected case studies on the application of GIS and remote sensing are presented by guest speakers as appropriate, depending on speakers’ availability.

Typical availability
Autumn semester, City campus

91121 Aquatic Ecology

6cp; includes a compulsory field trip to Stroud, normally held in February
Requisite(s): 91110 Experimental Design and Sampling AND 91154 Ecology

This subject gives students a comprehensive understanding of the ecology of aquatic ecosystems (freshwater and marine). It provides students with knowledge of the physical, chemical and biological processes and their interactions that occur in freshwater, marine and estuarine systems. It also introduces them to the effects of anthropogenic impacts of in-stream and catchment activities on the integrity of these ecosystems, and approaches to managing these water resources. Students develop an appreciation of the importance of understanding the ecology of these systems as it underpins the ability to manage these resources for the benefit of the biota and humanity. These include an appreciation of the rich and varied patterns of biodiversity and physical features among these habitats, and the importance of maintaining their integrity in the face of anthropogenic impacts. Understanding ecosystem integrity requires and understanding of the structure and function of these ecosystems. The subject develops the student’s ability to research issues related to the project component of the subject to discuss the implications of their results in the broader context of the ecology of aquatic ecosystems.

This subject applies the knowledge gained in 91110 Experimental Design and Sampling and in the practical activities which are project based. It also provides the knowledge and skills required for the elective subject 91155 Stream and Lake Assessment.

Typical availability
Autumn semester, City campus

91123 Biocomplexity

6cp, 6hpw

This subject investigates the question: what does it take for life to exist in the range of habitats across the globe? There is considerable variation among living organisms, including humans, in their biology and how they interact with their environment. This subject explores the problems faced by living organisms in order to live in different habitats, and demonstrates the strategies of plants, animals, fungi, protozoa and microorganisms that have evolved to cope with the vast array of habitats on Earth. The order in which these biota are treated is reflected in the order of the evolution of life, i.e. movement from the water to the land (and in some cases back to the water). All major taxa are discussed comparatively to better demonstrate the diversity of evolutionary strategies that have evolved in response to environmental conditions. The subject concludes with considerations of the sustainable use of animals, plants, fungi and bacteria as resources for humans.

Typical availability
Spring semester, City campus

First-year experience videos

View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/8/AjUcHSOTZvc
- Academic video: www.youtube.com/user/utschannel#p/u/26/ubH4S57M1apM

91126 Coral Reef Ecosystems

6cp; includes a six-day field excursion to One Tree Island, normally held in July; availability: enrolment is restricted due to the availability of space at the One Tree Island Research Station and preference is given to final-year students in the Bachelor of Science in Marine Biology

Requisite(s): [91153 Catchment Ecosystems OR 91123 Biocomplexity] AND 91121 Aquatic Ecology

In this senior-level field subject, students examine in detail the ecology and geology of a coral reef environment. As part of the study, students carry out a group research project on an area of special interest within the reef environment. The subject requires a literature survey prior to attendance and preparation of a field report following completion of the fieldwork. The subject covers a range of aspects of the marine environment, including chemical, biological, physical and geological oceanography, in addition to the biology of fishes, benthic fauna, plants and sediments. The subject includes a six-day excursion to Queensland’s One Tree Island.
Typical availability
July session, City campus

91129 Transfusion Science
6cp; 6hpw
Requisite(s): 91401 Introductory Haematology and Immunology
This subject covers human blood groups, principles of donor blood compatibility and antigen/antibody reactions, detection and identification of serum antibodies, blood products, the safety of the blood supply and minimisation of transmission of infectious diseases, investigation of transfusion reactions, haemolytic disease of the newborn, platelet and leucocyte immunohaematology, transfusion in critical care situations, legal aspects of transfusion of blood products, stem cell transplantation, and cytokine stimulation of haemopoiesis.

Typical availability
Spring semester, City campus

91132 Molecular Biology 1
6cp; 6hpw
Requisite(s): 91161 Cell Biology and Genetics AND 91314 General Microbiology
These requisites may not apply to students in certain courses. See access conditions.

This subject provides an introduction to the basics of molecular biology and an understanding of the key concepts underlying the experimental techniques of DNA manipulations of a molecular biology laboratory. Topics covered include: DNA and RNA isolation, restriction enzymes, DNA ligation, cloning strategies; southern, northern and western blotting; and an introduction to DNA sequencing and PCR. Emphasis is also placed on the use of databases to retrieve and analyse nucleic acid and protein sequences. This subject encourages students to become adept at the techniques required for molecular analysis in a modern scientific laboratory, and provides a foundation for more advanced molecular biology study.

Typical availability
Spring semester, City campus

91137 DNA Profiling
6cp; 5hpw
Requisite(s): I35255 Forensic Statistics AND (65242 Principles of Forensic Science OR 65261 Principles of Forensic Science AND 65342c Crime Scene Investigation OR 65543c Crime Scene Investigation) AND 91132 Molecular Biology 1
These requisites may not apply to students in certain courses. See access conditions.

This subject examines advanced molecular biological techniques, and the performance of both nuclear and mitochondrial DNA laboratory extraction procedures from a variety of samples. DNA extract amplification and examination using the standards is highlighted as required for court admissible evidence. Population genetics and population structure is addressed in relation to relevance of results. Basic population statistics and likelihood ratios is discussed in relation to considerations, quality control, proficiency testing and accreditation. Students study the applications of these techniques in quarantine, customs and wildlife management.

Typical availability
Autumn semester, City campus

91138 Investigation of Human Remains
6cp; 5hpw; availability: limited places are available with priority given to Bachelor of Forensic Biology in Biomedical Science [C10174] students; it also may not be available as an elective to other science students, contact the subject coordinator
Requisite(s): (I91402 Anatomical Pathology OR 91354 Anatomical Pathology) AND (65342c Crime Scene Investigation OR 65543c Crime Scene Investigation) AND 91132 Molecular Biology 1
These requisites may not apply to students in certain courses. See access conditions.

This subject covers the coronal system, the function of the coroner, ethical and religious issues, sensitivity to Koori (and other indigenous Australian people) rights and heritage, and procedures required for disaster victim identification. Theoretical and practical aspects also include recovery of remains, decomposition, methods to estimate time of death, ways forensic scientists and pathologists distinguish race, age and gender of the deceased and whether death was caused by ageing, disease or accidental or intentional means. Students are also introduced to odontological (dental), osteological (bone) and anthropological techniques, which also assist in such identifications.

Typical availability
Autumn semester, City campus

91139 Complex Forensic Cases (Biology)
6cp; 4hpw
Requisite(s): 91137 DNA Profiling AND 91138 Investigation of Human Remains
These requisites may not apply to students in certain courses. See access conditions.

This subject examines some cornerstone cases in biological evidence, which lead to changes in testing and court procedures. The subject also includes working through mock cases, making decisions on what samples to take and analyses to perform, along with relevant controls and reference samples. A court report is written (submitted for marking) and evidence relating to the case presented in a mock trial. The report details the case strategy, relevant quality assurance, control, reference samples and significance of the findings.

Typical availability
Spring semester, City campus

91140 BioNanotechnology
6cp; 5hpw
Requisite(s): (((65201 Chemistry 2C OR 65212 Chemistry 2)) OR (65201 Chemistry 2C OR 65212 Chemistry 2)) OR (N4001 Chemistry 2A) OR (65022 Chemistry 2A)
These requisites may not apply to students in certain courses. See access conditions.

Biological systems are extremely important in nanotechnology and many new applications are being developed by mimicking natural systems. Biology is extremely good at self-assembling complex, multi-functional systems at the nanoscale, e.g. cell membranes or DNA. By understanding how these systems work, nanotechnologists are developing new biosensing, biomedical and materials applications, e.g. the ion-channel biosensor. This subject investigates the science that underlies these biological processes and how it is applied in contemporary nanotechnologies.

Typical availability
Spring semester, City campus

91142 Biotechnology
6cp; 6hpw
Requisite(s): (91120c Metabolic Biochemistry AND 91314c General Microbiology) OR 91313 Biomolecules: Structure and Function
This subject provides a detailed overview of the biotechnology industry from the traditional industries to the recent high-technology industries. The major streams of food biotechnology, agricultural biotechnology, industrial biotechnology and medical biotechnology are explored with an emphasis on recent advances and modern procedures.

Typical availability
Autumn semester, City campus

91144 Plant Biotechnology
6cp; 5hpw
Requisite(s): 91132 Molecular Biology 1
In this subject, students are introduced to plant cell and tissue culture and the application of these techniques to cloning, somatic embryogenesis and somaclonal variation, and totipotent cells as a means of multiplication and determining phenotypic and genetic stability of tissue cultured plants. The subject also includes media preparation and nutrient requirements and the use of robotics and biofermentors in micropropagation. Pathogen detection and elimination, virus-free plants, pathogen indexing, certification of horticultural crops, plant quarantine, germplasm preservation, cryopreservation, long-term storage, and biosecondary metabolites are covered. Physiological status of micropropagated plants, transplanting and hardening-off stages are demonstrated and practises and problems in micropropagation such as vitrification, phenolic exudates, vessel environment and large-scale production are covered. Techniques used in plant biotechnology such as transgenic plant production, molecular biology and proteomics are
covered and environmental concerns and biosafety regulations are included. Emphasis is given to Australian indigenous and rare flora and agriculturally important crops.

**Typical availability**
Spring semester, City campus

91145 Environmental Protection and Management
6cp; 5hpw
Requisite(s): 91154 Ecology
These requisites may not apply to students in certain courses. See access conditions.

Scientific investigation and evidence form the basis of effective management and protection of ecosystems. This subject examines the contribution of science to management and conservation of natural and threatened ecosystems and to the formulation and development of guidelines and environmental policies and laws, considered from regulatory, socioeconomic and community perspectives. Topics address adaptive management strategies, environmental impact and ecological risk assessments and application of regulatory guidelines in monitoring, conservation and remediation of terrestrial and aquatic ecosystems impacted by human uses. A range of case studies are presented to illustrate the concepts introduced in this subject.

**Typical availability**
Spring semester, City campus

91144 Topics in Australian Marine Science
6cp
This subject introduces students to current research undertaken in the various disciplines of marine science in Australia. It is a multi-institutional subject taught at the Sydney Institute of Marine Science (SIMS) with contributions from four partner universities (UTS, UNSW, USyd, and Macquarie). Students are able to take advantage of the newly built (as of 2011) facilities at SIMS, and its more than 80 associate scientists. Lectures and tutorials are taught by leading marine science researchers. The SIMS partnership provides a breadth of expertise that would not be achieved by any institution in isolation. Topics cover physical and biological oceanography, climate change, molecular ecology, aquaculture, marine biology and marine geosciences. In practical classes, students analyse and interpret remotely-sensed data from the Integrated Marine Observing System (IMOS), which provides comprehensive information on the biological and physical processes of Australia’s coastal and oceanic waters.

91149 Geological Processes
6cp; 6hpw
Requisite(s): 35101 Introduction to Linear Dynamical Systems OR 68041 Physical Aspects of Nature OR 68101 Foundations of Physics
This subject introduces basic concepts of environment building processes. The focus is on the processes of rock and landscape formation, and their evolution due to the action of atmosphere and hydrosphere, and the interaction with the biosphere. Geomorphicologic processes and their relationship to the underlying geological sequences are presented, as well as principles of weathering and sedimentology; soils and sediments, their formation, structure and function in supporting soil-based ecosystems. Unravelling the history of the Earth through the study of layering in rocks and examination of the fossil record are included, together with an introduction to the development of stratigraphic principles and their significance in understanding the nature of surface materials through aspects of superposition, correlation, structure, erosion and land stability. Practical classes are aimed at equipping students with the following essential skills: map reading and environmental interpretation; and practical identification of sediment, soil, minerals, rocks and fossils.

**Typical availability**
Autumn semester, City campus

91154 Ecology
6cp
Requisite(s): 91101 Cells, Genetics and Evolution OR 91102 Animal Function and Diversity OR 91123 Biocomplexity
Management and remediation of the vast array of environmental problems facing the globe require a rigorous, scientific understanding of how ecosystems work. In this subject, students are introduced to fundamental ecological principles underpinning the structure and function of ecosystems. Theoretical and empirical examples are provided using a broad cross-section of organisms (e.g. invertebrates and vertebrates) and ecosystems (e.g. aquatic and terrestrial) with a focus on the application of ecological knowledge to the conservation and management of biodiversity. Field work in several different systems (e.g. woodland vegetation, rocky shore habitat) during practical classes is compulsory. This subject is an important link to a range of third-year subjects that require a deep understanding of ecological concepts.

**Typical availability**
Spring semester, City campus

91155 Stream and Lake Assessment
6cp
Requisite(s): 91270 Plant Physiology and Ecophysiology
These requisites may not apply to students in certain courses. See access conditions.

Detailed biological characteristics of Australian streams and lakes are covered in the context of biomonitoring and assessment of water quality and ‘ecological health’ and their management. Assessment techniques include the AUSRIVAS approach, which is related to other water quality indicators, particularly limnochemistry. This subject is targeted to those seeking a career as professional freshwater ecologists. Excursions are included in this subject.

**Typical availability**
Spring semester, City campus

91156 Marine Primary Producers
6cp; part block mode
Requisite(s): 91270 Plant Physiology and Ecophysiology
These requisites may not apply to students in certain courses. See access conditions.

This senior level subject provides an understanding of marine ecosystem structure (all marine ecosystems are ultimately dependant upon primary production). Specifically, it provides a foundation in assessing and understanding the process of photosynthesis of marine plant systems. Much of the subject is taught in block mode at Heron Island with some limited activities based in Sydney. Enrolment in the subject is limited by the availability of space at the Heron Island Research Station and preference is given to students in the Bachelor of Science in Marine Biology course.

**Typical availability**
July session, City campus

**Note(s)**
91156 runs every day (3rd year).

91157 Marine Communities
6cp; Block, plus 1-day and 3-day excursions
Requisite(s): 91154 Ecology AND 91110 Experimental Design and Sampling
These requisites may not apply to students in certain courses. See access conditions.

Australia is directly responsible for more the 16 million km2 of ocean, which contributes in excess of $90 billion to our economy each year. Sustainable management of our coastal and oceanic resources can only come through understanding of the ecology of these systems. In this subject students develop an understanding of the processes that structure marine communities and support marine mammal populations. Problem-based learning techniques are used to elucidate interactions between the animals and plants in marine communities. Special attention is paid to local rocky reef, soft-sediment and pelagic (open water) communities. This subject integrates lecture and fieldwork, complimenting other subjects, which focus on fish, coral reef ecosystems, marine primary producers and marine geosciences. Experimental work is conducted in the field during a three-day excursion to Pearl Beach, held during tutorial week and a one-day excursion to the soft-sediment communities at Careel Bay. Due to the Pearl Beach excursion, numbers are limited and preference is given to second-year marine biology students.

**Typical availability**
Spring semester, City campus

**Note(s)**
91157 runs every year (2nd year).
This subject presents an introduction to the study of impacts of major pollutants/toxins in aquatic and terrestrial ecosystems on biota, their fates in the environment and the methodologies that are used to measure such impacts to yield results that are acceptable under regulatory constraints. The contributions of field and laboratory methods of assessment are evaluated in the context of monitoring and assessment. QA/QC and forensic investigation methods relevant to the environmental protection area: examples from Australia will be used throughout. Several one-day excursions are included.

Typical availability
Spring semester, City campus

91161 Cell Biology and Genetics
6cp; 6hpw

This subject is concerned with the cellular nature of biological material and students engage in processes of scientific inquiry in cell biology and genetics. The subject introduces the student to the basic concepts of cell biology, cell structure and function and the underlying genetic code. The different structure, composition and function of prokaryotes, eukaryotes and archaea are covered. The subject covers the structure and properties of cell membranes and transport across them, as well as the chemical changes (both synthetic and degradative) that occur in cells and the ways in which cells obtain, store and manipulate energy. Processes of cell communication, including cell recognition and adhesion, and the ways in which cells respond to external signals are also covered.

Students are introduced to the methods used to investigate cellular structure and the functional significance of their sub-cellular organisation. Cell growth and division along with stages of the cell cycle and key molecules and mechanisms involved in its regulation, along with mitosis and meiosis are discussed. The topics of cell proliferation, cell differentiation and apoptosis (programmed cell death) are covered. In this subject students learn to undertake independent research and participate in the scientific peer review process.

Typical availability
Autumn semester, City campus

91163 Alpine and Lowland Ecology
6cp

This is a field-based subject run every third summer. It comprises an 11-day field trip (the ‘Great Southern’) from the southeast coastal to alpine regions of New South Wales. This field trip alternates on a three-year rotation with 91371 Forest and Mountain Ecology (the ‘Great Northern’) and 91370 Semi-arid Ecology (the ‘Great Western’). Worldwide, ecological processes and biota vary dramatically with altitude. Such an altitudinal gradient can be seen in Australia, not far from Sydney. The field trip goes from the lowest to the highest altitude. Such an altitudinal gradient can be seen in Australia, not far from Sydney. The field trip goes from the lowest to the highest locations in Australia: sea level on the southeast coast at Eden to Mt Kosciusko at 2226 metres. Along this gradient, students experience changes in flora, fauna and ecology, driven by the climatic forces that change from the ocean to the mountains. The curriculum framework is therefore altitudinal change, with core content focusing on vegetation changes in height, shape, species composition, ecology and human use. Students compare heathlands at the top and the bottom of the range, the tall forests in between, and their associated fauna and aquatic systems. Students experience first-hand the major climatic driver of environmental change along this altitudinal gradient: temperature. They also learn how the interacting forces of rainfall, soil, slope and aspect shape the ecological complexity as they ascend. While maintaining this core content, additional content on the field trip is guided by what is encountered along the way. An overarching framework of altitudinal change allows learned concepts to be reinforced in sometimes unpredictable ways. For example, an encounter with an area recently burnt may provoke an impromptu lecture from staff on the vulnerability or resilience of a particular system to fire. The framework also provides a strong professional context, whereby students learn from the expertise of people working along the gradient, who tell about the experience of practitioners in their place of work without the detachment inherent in the classroom.

The subject content is therefore enhanced according to what is topical and relevant in terms of scientific research, land management practices, and political contest, but the core content remains consistent for all field trips.

Typical availability
Summer session
This subject is next offered in December 2013.

91164 Communication for Science
6cp; lecture: 1hpw; workshop: 3hpw

This is an integrated subject aimed at developing and enhancing the oral and written communication skills of students entering science. The content of lectures and practical workshops deals with the development of a range of academic and professional communication skills such as critical reading of scientific texts, writing for a range of readers and purposes in various science disciplines, effective speaking and listening. The subject also addresses ethical considerations relevant to science communication, such as plagiarism, truth in reporting of scientific data and ethical dilemmas in science.

91165 External Marine Study 1
6cp

For subject description, contact UTS: Science.

91166 External Marine Study 2
6cp

For subject description, contact UTS: Science.

91170 Microbial Ecology
6cp

Requisite(s): [91107 The Biosphere AND 91123 Biodiversity AND (91165 Microbial Ecology)]

Microorganisms dominate all natural ecosystems and are fundamentally important for the maintenance of conditions that permit life on earth. Microbes are also important infectious agents or symbionts of animals and plants, and thus play a critical role in influencing the physiology and ecology of these larger organisms. This subject goes beyond traditional laboratory and clinical-based microbiology to examine the ecological role of microorganisms in natural environments. Within this context the subject investigates how microorganisms fit into aquatic and terrestrial food webs, and the roles that they play in controlling global chemical cycling processes. The ways that microbes interact with higher organisms (animals and plants) and their influence on human society are also examined. The primary objective is to provide a comprehensive introduction to the multifaceted influences of microorganisms in our natural world.

Typical availability
Spring semester, City campus

91171 Biomedical Engineering Project A
12cp

For subject description, contact UTS: Science.

91172 Biomedical Engineering Project B
12cp

For subject description, contact UTS: Science.

91173 Biomedical Engineering Project
24cp

For subject description, contact UTS: Science.

91239 Human Pathophysiology
6cp; 6hpw

Requisite(s): [91400 Human Anatomy and Physiology OR (91701 Medical Science 1 AND 91702 Medical Science 2)]

These requisites may not apply to students in certain courses. See access conditions.

This subject aims to provide an overview of the essential elements of the disease process as occurring in some common disorders of each of the major body systems. This information is provided in the context of how the disorder affects healthy structure and function, and so reinforces basic anatomy and physiology previously studied. Topics include immunology, cancer, endocrine, gastrointestinal, respiratory, cardiovascular, renal and body fluid, nervous, musculoskeletal and reproductive disorders.
This subject introduces the key concepts, processes and techniques required to understand the basics of the physiology of plants and the interaction of the abiotic environment with plants in the field (ecophysiology). It is taught using a combination of lectures, practical lab work and group project work. Topics to be covered include a selection from the following: carbon gain; long-distance transport in the phloem; uptake, movement and control of water fluxes in the soil-plant-atmosphere continuum; behaviour and physiology of stomata; nitrogen fixation of higher plants; ion uptake by plant roots; comparative ecophysiology of plants in contrasting environments; physiology of plants exposed to stress.

**Typical availability**  
Spring semester, City campus

### 91309 Biodiversity Conservation

6cp; 5hpw  
**Requisite(s):** 91161 Cell Biology and Genetics OR 91701 Medical Science 1 OR 91101 Cells, Genetics and Evolution  
**Note(s):** These requisites may not apply to students in certain courses. See access conditions.

This subject introduces various taxonomic tools including use of keys and examines the usefulness of classification schemes in biodiversity. In particular, the subject addresses the question as to why and how biodiversity is important, what does biodiversity tell us about animal and plant groups and indeed the planetary health. The subject includes an introduction to modern sophisticated analytical techniques in biodiversity assessment.

**Typical availability**  
Autumn semester, City campus

### 91314 General Microbiology

6cp; 5hpw  
**Requisite(s):** 91161 Cell Biology and Genetics OR 91701 Medical Science 1 OR 91101 Cells, Genetics and Evolution  
This subject provides an introduction to the structure, function and taxonomy of the bacteria, fungi, protozoa, and viruses. Several key topics in the study of microbiology are discussed including microscopy, sterilisation, disinfection, microbial nutrition, microbial growth, bacterial identification schemes, as well as antibiotic and anti-microbial agents, and contemporary techniques in molecular microbiology. Basic mycology, parasitology, and virology are covered, with an emphasis on transmission control of these organisms. The practical exercises give students experience in the principal laboratory procedures for the isolation, manipulation, growth and identification of micro-organisms.

**Typical availability**  
Autumn semester, City campus

### 91320 Metabolic Biochemistry

6cp; 6hpw  
**Requisite(s):** 91161 Cell Biology and Genetics OR 91313 Biomolecules: Structure and Function AND 65212 Chemistry 2 OR 6522 Chemistry 2A OR 65201 Chemistry 2C  
This subject introduces students to cellular metabolism and energy transfer mechanisms. It provides an overview of the main carbohydrate catabolic and anabolic pathways including glycolysis, Krebs cycle and oxidative phosphorylation, gluconeogenesis and glycolgen metabolism. It provides an understanding of nitrogen and fatty acid metabolism, and the metabolic specialisation of tissues and the relationships between tissues. Cell signalling and the role signals/hormones in maintaining homeostasis is explored.

This understanding of cell function provides a foundation for many subjects in biological and biomedical sciences. Emphasis is placed on mastering and understanding the principles of cellular reactions and their application to diverse cell types. The subject also introduces the basic tools and methods of biochemical experimentation, the application of biochemical reasoning, and the presentation of results in written format.

**Typical availability**  
Autumn semester, City campus

### 91326 Analytical Biochemistry

6cp; 6hpw  
**Requisite(s):** 91320 Metabolic Biochemistry OR 91313 Biomolecules: Structure and Function  
This subject examines modern methods in biochemical analysis emphasising instrumentation, underlying principles, aims and strategies. It covers spectroscopic methods, spectrophotometry, spectrophluorometry, flame emission and absorption photometry, magnetic resonance, mass spectrometry, chromatography principles and practice; GLC, HPLC; electrophoresis, centrifugation; applications to nucleic acids and proteins; cryoscopic osmetry; electrochemical methods; potentiometry and ion electrodes, polarography; introduction to radiochemistry; and immunoassay methods.

**Typical availability**  
Spring semester, City campus

### 91330 Epidemiology and Public Health Microbiology

6cp; 6hpw  
**Requisite(s):** 91314 General Microbiology  
This subject covers the following topics: history of understanding of disease causation and of public health microbiology; basic epidemiological principles; mathematical formulation of epidemics; measures of disease frequency (rates and risk factors); sociological aspects; the public health laboratory environment; food, water and airborne diseases; exotic and notifiable diseases; zoonoses; application of bacterial enumeration and identification techniques to the examination of water and food; epidemiological tracing methods; biotyping; serotyping; bacteriophage typing; molecular typing; control measures and interventions; hygiene; sanitation; disinfection; sterilisation; vaccines, vaccination procedures and vaccination programs.

**Typical availability**  
Spring semester, City campus

### 91335 Molecular Biology 2

6cp; 6hpw  
**Requisite(s):** 91132 Molecular Biology 1  
These requisites may not apply to students in certain courses. See access conditions.

This subject covers the following topics: structure and organisation of the eukaryotic genome; fundamental introduction to the ‘omics’ technologies: genomics, transcriptomics and proteomics; control of gene expression by regulation of RNA synthesis, processing and translation; examples of gene therapy and transgenic technology including the use and design of expression vectors; and introduction to bioinformatics and the practical use of computer algorithms for the analysis of molecular data, DNA extraction and digestion for the identification of repetitive sequences, polymerase chain reaction and proteomics technology.

**Typical availability**  
Spring semester, City campus

### 91338 Clinical Bacteriology

6cp; 6hpw  
**Requisite(s):** 91330 Epidemiology and Public Health Microbiology  
This subject covers the following topics: quantitative methods, reliability studies, automation, data processing and numerical analysis in clinical microbiology; pathogenic microorganisms (their handling (including safety requirements), cultivation, isolation and relationship to the indigenous flora of humans and animals) a detailed study of staphylococci, streptococci, corynebacteria, mycobacteria, neisseria, enteric bacteria, pasteurellae, pseudomonads and spirochaetes; and antibiotics and antibiotic sensitivity testing.
Typical availability
Autumn semester, City campus

91344 Medical and Diagnostic Biochemistry
6cp; 6hpw
Requisite[s]: 91320 Metabolic Biochemistry
These requisites may not apply to students in certain courses. See access conditions.

This subject is designed to introduce the basic concepts of medical biochemistry relevant to biotechnology, medical research and clinical analysis. It is structured in such a way that it analyses the basic biochemical abnormalities that lead to various disease states, their diagnostic, clinical analysis and final treatment. The major areas covered are abnormal kidney and liver function, biochemistry of haemoglobin pigments and their relation to disease. Abnormalities of carbohydrate metabolism such as diabetes, clinical enzymology and serum proteins in health and disease, the principles of laboratory management, with special emphasis on safety, quality control and automation are also covered.

Typical availability
Autumn semester, City campus

91345 Biochemistry, Genes and Disease
6cp; 6hpw
Requisite[s]: 91320 Metabolic Biochemistry
These requisites may not apply to students in certain courses. See access conditions.

This subject covers biochemical and genetic aspects of human diseases for students planning careers in medical science, diagnostic biochemistry, molecular biology and biotechnology. In this subject, students learn about some of the more common heritable genetic defects and their medical and biochemical consequences. In addition, students further develop knowledge and practical skills in the biomedical applications of biochemical and molecular analysis. The lecture series covers three main areas: heritable metabolic defects, e.g. hypothyroidism, cystic fibrosis, familial hyperlipidaemia, Down’s syndrome; biochemical physiology and pathology, e.g. human biochemistry as expressed by lipid metabolism, detection of disease states resulting from altered biochemical systems; and current trends in biochemical molecular research including cancer and gene therapy for diabetes. The practical component enables students to gain experience in test procedures used to detect and monitor disease, including techniques of radioimmunoassay, electrophoresis and PCR screening.

Typical availability
Spring semester, City campus

Note(s)
This subject was formerly called Clinical Biochemistry 2.

91352 Parasitology
6cp; 6hpw
Requisite[s]: 91314 General Microbiology
These requisites may not apply to students in certain courses. See access conditions.

This subject covers the following topics: parasitism; biology of parasitic worms including nematodes, trematodes and cestodes; biology of parasitic protozoa including the sporozoans, flagellates, amoeba and ciliates; arthropods as vectors of disease; clinical parasitology; molecular biology of parasites; immunity and vaccine development; and antiparasitic therapy.

Typical availability
Spring semester, City campus

91358 Advanced Haematology
6cp; 4hpw
Requisite[s]: 91401 Introductory Haematology and Immunology
This subject covers disease processes related to hereditary, acquired, benign and malignant disorders of haematological systems; correlation of physiological processes, pathological states and diagnostic tools in haematology; light microscopic morphological examination of peripheral blood and bone marrow in disease and correlation of these findings with indices and cell counts obtained by automated laboratory equipment; procedures for detection and precise diagnosis of anemias, haemostatic disorders, haemoglobin disorders and haematological malignancies; the World Health Organization classification of haematological malignancies; introduction to cytogenetics; prenatal diagnosis of genetic disease; genetic counselling and cancer cytogenetics.

Typical availability
Autumn semester, City campus

91359 Advanced Immunology
6cp; 5hpw
Requisite[s]: 91401 Introductory Haematology and Immunology
These requisites may not apply to students in certain courses. See access conditions.

This subject provides current concepts of modern immunology to students who have some basic understanding of the subject, and aims to develop an appreciation of the wide spectrum of applied immunology in medicine, research and industry. Specialised areas of immunology covered include: genetics of antibody diversity; structure of antibodies; genetics and structure of the T cell receptor and MHC molecules; cytokines; mechanisms of immune cell regulation in health and disease; clinical immunology and techniques applicable in both diagnostic and research laboratories, including enzyme-linked immunoassays; protein purification and analysis; cell separations and flow cytometry.

Typical availability
Autumn semester, City campus

91363 Animal Behaviour and Physiology
6cp
Requisite[s]: 91123 Biocomplexity

This subject covers the complexities and provides an in-depth analysis of basic behavioural and physiological processes. The focus is on the interactions between the control systems and physiological and behavioural processes in relation to habitat and changing environments. The central role of the nervous system in controlling physiological and behavioural parameters in response to environmental selection is emphasised.

Typical availability
Spring semester, City campus

91368 Bioreactors and Bioprocessing
6cp; 6hpw
Requisite[s]: 91314 General Microbiology
These requisites may not apply to students in certain courses. See access conditions.

This subject covers the practical aspects of modern biotechnology including bioreactor operation, microbial kinetics, extraction techniques and downstream processing. It includes the microbiological physiological and biochemical basis of industrially useful fermentations in food, beverage, pharmaceutical and other relevant industries. Economic and other factors impinging on the operation of fermentation industries are also undertaken in this subject. The theory and laboratory practice is further developed by visits to local biotechnology businesses.

Typical availability
Spring semester, City campus

91369 Biobusiness and Environmental Biotechnology
6cp; 6hpw
Requisite[s]: 91314 General Microbiology
These requisites may not apply to students in certain courses. See access conditions.

This subject explores microbial habitats, the microbial biogeochemical cycles and environmental biotechnology including sewage treatment, industrial/agricultural waste, biodegradation, bioremediation, microbial mining and biofuels. Also included in this subject are quality control techniques, quality management systems (ISO, GMP etc), HACCP, legislation, intellectual property and the financing, establishment and management of biotechnology companies. Industrial visits are an important component of this subject.

Typical availability
Autumn semester, City campus
91370 Semi-arid Ecology
6cp; block mode; 10-14 day field excursion to far western NSW in July every third year; availability: enrolment is restricted by the availability of space in vehicles, with preference given to third-year environmental science students
Requisite(s): 91110 Experimental Design and Sampling AND 91154 Ecology
Recommended studies: a thorough knowledge of basic ecology is a prerequisite for this subject
Many of the ecological processes and environmental issues associated with arid and semi-arid regions in Australia (indeed, around the world) can be found in New South Wales. This excursion-based subject takes us as far west as the border with South Australia and as far north as Queensland. We experience semi-arid woodland and mulga scrub, arid shrublands and grasslands, ephemeral floodplains, salt pans and dune country. A core theme of this subject is the fragility of a system typified by low and/or unpredictable rainfall, extreme temperatures, nutrient-poor and skeletal soils, and the adaptations of the associated flora and fauna.
This subject (the 'Great Western') is run every third year (in July session) by the UTS School of the Environment. It is a 14-day excursion in the semi-arid and arid regions of western New South Wales. This block subject is normally taken in the senior stages of the course. It is assumed that students have a thorough knowledge of basic ecology.

Typical availability
July session, City campus
This subject is offered once every three years, alternating with 91371 Forest and Mountain Ecology and 91163 Alpine and Lowland Ecology.
It is next offered in July 2015.

Note(s)
Students wishing to enrol in this subject must email a request containing the following information to the School of the Environment administrative assistant:
- their year/level of study
- course enrolled in
- whether they have undertaken subjects 91371 or 91163.

91371 Forest and Mountain Ecology
6cp; block mode; 13-day field excursion to northern NSW; availability: enrolment is restricted by the availability of space in vehicles; preference is given to third-year environmental science students
Requisite(s): 91110 Experimental Design and Sampling AND 91154 Ecology
Recommended studies: a thorough knowledge of basic ecology
This is an excursion-based subject run by the School of the Environment at UTS. It comprises a 13-day field trip (the 'Great Northern') to the northern New South Wales forests and northwestern woodlands following a chain of hotspot volcanoes along the Great Dividing Range. This field trip alternates on a three-year rotation with 91163 Alpine and Lowland Ecology (the 'Great Southern') and 91370 Semi-arid Ecology (the 'Great Western'). The Great Dividing Range is Australia's most distinctive topological feature, running from the northernmost to southernmost points of the eastern edge of the continent. The range is the source of major ecological gradients longitudinally (along the range) and latitudinally (across the range). The field trip goes along the range from Sydney to the Queensland border, before crossing west over the range. The curriculum framework is the ecological change associated with these two gradients along and across the range. The core content focuses on the climatic and geological drivers of ecological processes characteristic of different regions along the chain of mountains formed by hotspot volcanoes. When following this mountain chain, students learn about the many different forest types, along with their associated fauna and aquatic systems, and observe how these change as they progress from cooler temperate to sub-tropical rainforests to open woodland systems. Students experience firsthand the environmental processes along these two gradients, where rainfall, or lack thereof, and soil properties are key to shaping species diversity and distribution.

Typical availability
December session, City campus
The mode of this subject is excursion-based.

91400 Human Anatomy and Physiology
6cp; 6hpw
Requisite(s): 91161 Cell Biology and Genetics
These requisites may not apply to students in certain courses. See access conditions.
This subject describes the anatomy (structure) and physiology (function) of the healthy human body. Lectures are complemented by a supportive practical/tutorial program. The content includes: homeostasis; the anatomical organisation of the body and anatomical terms; the structure and function of: the blood, the cardiovascular, circulatory systems, musculoskeletal system, endocrine, nervous, respiratory, gastrointestinal and urinary systems and human reproduction. Development of report writing and practical skills is also part of the subject.

Typical availability
Spring semester, City campus

91401 Introductory Haematology and Immunology
6cp; 5hpw
Requisite(s): 91400 Human Anatomy and Physiology
This subject is designed to introduce the basic concepts of haematology and immunology. The cells of the blood, bone marrow and immune tissues are studied in detail with regard to their identification, morphology and function. The development of these cells (haemopoiesis) and their roles in haemostasis and immune function is investigated. Students are also introduced to haematological and immunological diseases and the significance of haematological and immunological changes in disease. The study of immune function is structured in such a way that it follows the course of an immune response, from initial non-specific reactions to the development of adaptive responses and immunological memory. Emphasis is given to the basic concepts that underlie the recognition of foreignness and the response to infection.
The practical sessions introduce students to the variety of haematological and immunological techniques used in pathology and research laboratories.

Typical availability
Spring semester, City campus

91402 Anatomical Pathology
6cp; 5hpw
Requisite(s): 91400 Human Anatomy and Physiology AND 91500 Histology
These requisites may not apply to students in certain courses. See access conditions.
This subject builds on 91500 Histology and provides a basic knowledge of disease processes, the body’s responses to them, and the light microscopic appearance of diseased tissues; and general pathology. Students then move on to special pathology and examine the major organ systems, learning about organ specific diseases which affect these systems. Various histochemical methods already learned are used to demonstrate pathological tissue changes that occur during disease development. This is all integrated to present an understanding of disease, its histological appearance and the laboratory staining techniques used to investigate structural tissue changes that occur in disease states and aid histopathological diagnosis.

Typical availability
Spring semester, City campus

91403 Medical Imaging
6cp; 4hpw
Requisite(s): 68041 Physical Aspects of Nature OR 68101 Foundations of Physics OR 68037 Physical Modelling
These requisites may not apply to students in certain courses. See access conditions.
This subject provides advanced understanding of medical imaging technology and practice. It covers an examination of the role and effectiveness of clinical imaging, an overview of generic characteristics, and a detailed examination of specific imaging modalities: conventional x-rays, ultrasound, computed tomography, nuclear medicine, and magnetic resonance imaging. The subject includes lectures, seminars, practicals, workshops, and a visit to an imaging facility or guest lecture by an imaging specialist.

Typical availability
Autumn semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
91429 Physiological Bases of Human Movement  
6cp  
This subject examines the structure and function of the major systems of the body. It serves as an introduction to life processes in the healthy state and the physiological bases underpinning human movement. Areas of study include: anatomical organisation of the body, anatomical terms, organisation of the cell, osmosis, tissues, nervous system, cardiovascular system, respiratory system, digestive system and metabolism, renal system, and endocrine system.  

Typical availability  
Autumn semester, City campus

91499 Current Topics in Science and Technology  
12cp; approximately 20hpw of self-directed learning  
This subject is designed to enhance development of students' ability to undertake a professionally based scientific project. This subject can only be undertaken following prior negotiation on the part of the student with a full-time member of academic staff regarding supervision. Students contribute, in collaboration with their academic and, where relevant, industry supervisor, to the formulation of the project, including planning the work within an appropriate time scale. Students are responsible for appropriate analysis and critical evaluation of the data or information obtained and presentation of their findings in a formal written report.  

Students should approach the subject coordinator in the first instance. Before enrolment can be approved, the student and supervisor must provide the subject coordinator with a short written project proposal, including assessment criteria and, where the project involves laboratory or field work, a completed risk assessment form. If laboratory work is involved, the head of school must also approve the project.  

Typical availability  
Autumn semester, City campus

91500 Histology  
6cp; 5hpw  
Requisite(s): [91400 Human Anatomy and Physiology AND [65212 Chemistry 2 OR 65022 Chemistry 2A OR 65201 Chemistry 2C]]  
This subject teaches the micro-architecture of the human organs and tissues adding to the knowledge base established in the subject Anatomy and Physiology by both showing and describing mammalian tissue structure of all major systems of the human body at the light and electron microscopic levels. Students also learn about tissue fixation and processing for embedding into paraffin blocks for sectioning. They study the theory and practice of basic routine histological staining techniques, which assist and enhance different cellular components on cut tissue sections. These techniques along with microscopy skills and recognition of normal tissue histology comprise the practical component of this subject.  

Typical availability  
Autumn semester, City campus

91527 Pathophysiology and Pharmacology 3  
6cp  
Requisite(s): 91529 Pathophysiology and Pharmacology 1 OR 91530 Pathophysiology and Pharmacology 2  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.  
Together with 91529 and 91530, this subject shares the aim of providing an overview of the pathophysiology and treatment of some commonly occurring disorders of the major body systems. This information is provided in the context of how the disorder affects normal/healthy structure and function and so reinforces prior study of basic anatomy and physiology in healthy individuals. The subject provides students with the capacity to apply pathophysiological knowledge and concepts to acute and chronic care patients in clinical settings. It also extends this framework to areas that are consequences of disease processes, such as fever, impaired wound healing, and inflammation. It also provides the underpinning clinical science of nursing practice in areas including infection control, medication and health promotion.

91528 Health and Homeostasis  
6cp  
This subject provides the underpinning anatomy and physiology for the subsequent pathophysiology and pharmacology subjects in the Bachelor of Nursing program. Through the guiding principle of homeostasis, this subject describes the contribution the different organ systems make to maintain a state of wellness. It provides points of reference with regard to the activity and structure of individual organs in the person judged to be well (e.g. heart rate, lung volumes and capacity, organ architecture).  

91529 Pathophysiology and Pharmacology 1  
6cp  
This subject provides an introduction to the science and medicine of cardiovascular, respiratory, nervous and endocrine systems (a convenient grouping for major diseases that confront an ageing population). The subject explores fundamental pathophysiology of these body systems and the pharmacology of drugs used in the treatment and management of disease. Throughout the subject, there is an integrated focus on body systems contrasting normal and abnormal and how disease states may be managed therapeutically. The subject concentrates on common major diseases of these body systems which facilitates a comprehensive study of the pathophysiology encountered in these disease states, as well as cementing an understanding of the normal physiology in these body systems including the process of ageing. This is complemented by the study of the treatment and management of these diseases.  

• Neuro-endocrine pathophysiology and pharmacology: the pathophysiology of the alterations which occur within the nervous and endocrine systems (including cerebrovascular disorders, altered states of cognition, neurodegenerative disorders, demyelinating diseases, motor disorders, spinal injuries, head trauma, the neurochemical imbalances in disorders of mental health, pain, diabetes mellitus, and disorders of hypo-, hyper- and ectopic hormone secretion); the underlying actions of pharmaceuticals used for these disorders.  

• Cardiovascular pathophysiology and pharmacology: the pathophysiology of the alterations which occur within the cardiovascular system (including hypertension, atherosclerosis, heart failure) as well as the underlying actions of pharmaceuticals used for these disorders.  

• Respiratory pathophysiology and pharmacology: the pathophysiology of the alterations which occur with the respiratory system (including asthma, infections of the upper and lower respiratory tract, COPD) as well as the underlying actions of pharmaceuticals used for these disorders.  

91530 Pathophysiology and Pharmacology 2  
6cp  
Requisite(s): 91529 Pathophysiology and Pharmacology 1 OR 91528 Health and Homeostasis  
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.  
This subject explores fundamental pathophysiology of the gastrointestinal, renal, musculoskeletal and haematological systems and the accompanying management and treatment. This information is provided in the context of how the pathophysiology affects healthy structure and function, and so reinforces basic anatomy and physiology previously studied. Throughout the subject, there is an integrated focus on body systems contrasting normal and abnormal and how disease state may be managed by pharmaceutical surgical, medical and other strategies. The subject focuses on some major diseases which facilitate a comprehensive study of the pathophysiology encountered in these diseases.  

91533 Fundamentals of Pathophysiology 3  
6cp; 5hpw  
Requisite(s): 91531 Fundamentals of Pathophysiology 1 OR 91532 Fundamentals of Pathophysiology 2  
This subject is designed to develop an understanding of anatomy, physiology, pathophysiology and the microbiology of the nervous system and the anatomy, physiology and pathophysiology of the endocrine system. Advanced topics on reproductive anatomy, physiology and pathophysiology are also presented. Students also study specific drugs used in the treatment of the systems studied. Diseases acquired parentally are also discussed.
91534 Fundamentals of Pathophysiology 4
6cp; 10 wks, 5hpw
Requisite(s): 91531 Fundamentals of Pathophysiology 1 OR 91532 Fundamentals of Pathophysiology 2
This subject has been designed to develop an understanding of the anatomy, physiology, microbiology and pathophysiology of the integumentary, the immune and the haematological systems and the drugs used in the treatment of the systems studied. Students study the cellular transport, metabolism and kinetics of drugs; normal and abnormal cell development; genetics; and cancer: biology, diagnosis and treatment. An introduction to human nutrition is also part of the subject.

91535 Microscopy and Cytometry
6cp
This subject provides an in-depth understanding of the theoretical principles of modern microscopy and flow cytometry and offers students the opportunity for hands-on use of state-of-the-art research microscopes and flow cytometers at UTS. The subject covers theoretical principles of light microscopy (bright-field and dark-field), fluorescence and epifluorescence, as well as deconvolution and confocal microscopy, and reviews issues in data handling techniques for achieving high resolution and live cell (real-time) imaging. Similarly, the practical component focuses on theoretical principles of contemporary multi-laser flow cytometry, including cytometer instrument design and set-up for multicolour flow cytometry. The subject reviews all aspects of sample preparation, safety, and staining techniques, as well as data handling and storage, and extensive data analysis for microscopy and flow cytometry. Practical sessions provide the opportunity to perform both a fixed and a live cell fluorescent microscopy experiment and allows for students to work with their own results data for complex computer analysis and presentation. Results data from the examination crisis, presentation and finally for a written report presented in such a fashion that is deemed acceptable in a peer reviewed scientific journal.

91536 Proteomics
6cp
Proteomics describes the study of the complete set of proteins (proteome) that is expressed at a given time in a cell, tissue, organ or organism. Modern proteomics involves the integration of a wide range of protein-analytical tools and information technologies to quickly and accurately identify qualitative and quantitative changes in proteins; for example, in the detection of altered protein expression associated with disease. This subject covers leading technologies for sample preparation, protein fractionations, separations and mass spectrometry for protein identification and characterisation.
In the theory component, students are taken through experimental design and data analysis, and the best practice sample preparation technologies for different sample types: micro-organisms, plants, mammalian tissue and fluids. The practical component covers sample preparation, complex mixture fractionation, protein separations and mass spectrometry. Students complete a small lab-based project which requires a publication-style report encompassing data analysis skills.

91537 Biotechnology Research Project A
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000-15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

91538 Biotechnology Research Project B
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000-15,000 words approx.) including an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

91539 Biotechnology Research Project
24cp
In this subject students undertake a semester-long research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. This project is equivalent in level to those undertaken by honours and research master’s students. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (10,000-20,000 words approx.) which includes an introduction, which sets the project in the context of the literature, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

91540 Climate Change and Ecological Modelling
5cp
Climate change and climate variability have significant impacts on natural and social systems of vegetation, water and industry. Modelling of environmental systems, including climate, provides means for prediction of climate regimes, evaluation of possible impacts of climatic change and optimisation of natural resources management in climate change adaptation and mitigation strategies.
This subject aims to develop students' knowledge of climate change science, techniques of data analysis and process simulation, which enhances their understanding of models and model frameworks to understand and research specific environmental issues. This subject introduces students to modelling of environmental systems and, in particular, the principles associated with developing and using climate and ecological models. The physical basis of the climate system is introduced and factors affecting climatic change are addressed. Students build their knowledge of the physical aspects of the climate system as well as associated biogeochemical cycles (carbon and nitrogen cycling) and ecophysiology. The subject presents the concept of systems science and basic mathematical modelling techniques suited to environmental processes. Topics covered include: climate sensitivity; model evaluation; simulation of plant photosynthesis; ecosystem production; carbon cycle and carbon sequestration; water resources; and land surface processes. Through project-based work, students become familiar with relevant software and representative models.

Typical availability
March session, City campus
August session, City campus

91541 Monitoring Ecological Variability
6cp
With increasing threats and pressure being exerted on the environment and its land and freshwater resources, societal demands for more quantitative, timely and accurate information on the functioning and sustainability of ecosystems have become prominent. There is a recognised need for long-term monitoring studies and protocols for evaluating environmental change and for improved understanding and management of complex environmental systems. Monitoring is fundamental for detecting and evaluating changes in ecosystem structure and function, and for evaluating landscape response to disturbances such as climate change, natural disasters or certain land management practices. This subject aims to introduce students to ecological monitoring for characterisation of landscape dynamics including: vegetation–climate studies with long-term time series data sets; radiation, carbon and water studies; the seasonality and phenology of ecosystems; environmental health; and biodiversity, fire and disturbance. This subject emphasises multi-scale monitoring programs from plot-level and tower-based measurements to remote sensing, and assesses existing national and international ecological monitoring programs. Topics and practicals cover global climate change, time series analysis (anomalies and trends), and mapping and monitoring of the temporal dynamics of landscapes and freshwater environments on local, regional and global scales.

Typical availability
Summer session, City campus

91542 Principles of Contaminated Site Assessment
6cp
For subject description, contact UTS: Science.

91543 Evaluation of Contaminant Effects
6cp
For subject description, contact UTS: Science.

91544 Environment Risk Assessment and Remediation
6cp
For subject description, contact UTS: Science.

91545 Environment Research Project A
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

Typical availability
Spring semester, City campus

91546 Environment Research Project B
12cp
In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

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91547 Environment Research Project
24cp
In this subject students undertake a semester-long research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. This project is equivalent in level to those undertaken by honours and research master’s students. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (10,000–20,000 words approx.) which includes an introduction, which sets the project in the context of the literature, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.
91548 Forensic Biology Research Project A

12cp

In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

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91549 Forensic Biology Research Project

24cp

In this subject students undertake a semester-long research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. This project is equivalent in level to those undertaken by honours and research master’s students. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (10,000–20,000 words approx.) which includes an introduction, which sets the project in the context of the literature, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

91550 Forensic Biology Research Project B

12cp

In this subject students undertake a short research investigation under the supervision of a member of academic staff. Students contribute, in collaboration with their UTS supervisor and, where appropriate, an industry or external co-supervisor, to formulating the scope of the research project, including planning the research work. The student is responsible for carrying out the work, including appropriate and critical analysis of the data or information obtained, and writing up their findings in a formal written report (7000–15,000 words approx.) which includes an introduction to the project, a description of the methods used, a presentation of the results obtained plus any analysis undertaken and a discussion of the results in the context of the relevant literature. They may also be required to present a seminar to other students, staff and industry or external partners.

Due to supervisory and infrastructure constraints, places in this subject are limited and it can only be undertaken with faculty approval. Students should approach their Program Adviser and potential supervisors about project availability in the first instance. A project proposal, written in consultation with, and signed by the proposed supervisor and countersigned by the Program Adviser must be sent to the Master of Science Course Director for formal approval. Where the project involves laboratory or fieldwork, a completed risk assessment form must also be provided with the approval request. Ethics approval is required for certain projects.

91551 Ecological and Climate Change

6cp

Ecology is the study of the relationships between weather, climate, vegetation and structure and vegetation function and water in terrestrial landscapes. In particular the study of ecolodology requires an understanding of the physiology and ecophysiology of plants, micro-ecology and hydrology. This subject expands students' understanding of plant physiology and ecophysiology and applies an ecolodological perspective to understanding landscape behavior and function. It also explores how climate change may affect landscape ecology. The subject examines ground water dependent ecosystems, dryland salinity, the measurement and analyses of water and carbon fluxes above woodlands and forests and the impact of climate change on C and water fluxes of terrestrial biomes.

91604 Introductory Pharmacology and Microbiology

5cp; 5hpw; availability: Faculty of Health students only

This subject is divided into two components and provides the introductory principles governing drug action and microbial infections. Lectures are complemented by a tutorial/practical program that emphasizes the clinical nature of the subject and develops lecture material using a variety of experimental and case study approaches.

Microbiology: This subject introduces the concepts of the main groups of micro-organisms, concepts of normal flora, opportunistic pathogens, and microbial infections acquired via gastrointestinal, urinary, respiratory, and the genital tracts. Several key concepts in microbiology are also discussed including sources and modes of transmission of micro-organisms, factors monitoring microbial virulence, and prevention of hospital acquired infections. Additional topics include the epidemiology of infectious diseases, susceptible population groups, isolation procedures, and the collection and transport of microbiological samples.

Pharmacology: This subject introduces the concepts of potency, drug receptor interactions, agonists and antagonists and provides some introductory concepts of pharmacokinetics. Other key topics include the site and mechanism of action of drugs affecting the cardiovascular system, anti-inflammatory drugs, analgesics, antimicrobials and drugs used in the treatment of asthma.

Typical availability

Spring semester, City campus

91610 Medical Classics and the History of Chinese Medicine

6cp

This subject studies the development of traditional Chinese medicine (TCM) in the west as well as its theoretical structure and influence on the holistic approach to healing and preventative therapy. The focus is on some of the more complex theories arising from the classical literature and the ethics, both ancient and modern, that are embedded in the practice of TCM. Traditional Chinese medicine is firmly based on a 2000-year-old body of classical medical writing, and some of the landmark texts are still relevant to today’s practitioners. The interpretation of such ancient writings is the study of a lifetime. This subject introduces students to a detailed study of the major original writings on many aspects of Chinese herbal medicine and acupuncture theory, which they have studied in previous theory and practice subjects and may implement in clinical practice.

Typical availability

Spring semester, City campus

91611 Clinical Practicum (Therapy and Diagnosis)

6cp; Requisite(s): 9966c Clinic Level 5 and Acupuncture Microsystems

This is a pre-clinical subject designed to prepare the student to undertake the responsibilities of a practitioner while under clinical supervision in the UTS TCM (Traditional Chinese medicine) clinic. All previous subject material related to herbal, organ and acupuncture channel diagnostics; tongue and pulse diagnostics; establishment of treatment principles; selection of acupuncture or herbal scripts with rationale; and examination of treatment outcomes is reviewed and assessed by means of tutorials, practical workshops and exams, as well as a final pre-clinical examination.

Typical availability

Spring semester, City campus
91612 Chinese Medical Classics
6cp
Traditional Chinese Medicine (TCM) is firmly based on a 2000-year-old body of classical medical writing. This subject examines some of the major landmark texts of TCM that are still relevant to today’s practitioners. The interpretation of such ancient writings is the study of a lifetime but this subject introduces students to the original writings on many aspects of TCM theory with which they have studied in previous theory and practice subjects.

Typical availability
Spring semester, City campus

91613 Professional Issues in Traditional Chinese Medicine
6cp
This subject acquaints the student with the current requirements for the private practice of traditional Chinese medicine (TCM). The subject is split into two modules and features guest speakers in addition to the standard lectures. Module A focuses on current research, integration with Western medicine, legal and safety professional issues and examines the development of TCM within a worldwide framework. Module B delves into the principles and practice of running a business, its finances, master's (by research) or dissertation research programs. The subject also encourages students to individually pursue areas of personal interest and research, and to see themselves as part of the wider health care community.

Typical availability
Spring semester, City campus

91614 Evaluating TCM: Theory, Practice and Research 1
6cp
Requisites: 99647 Clinic Level 6
This subject provides the essential grounding of material necessary for progressing into Evaluating TCM: Theory, Practice and Research 2 (91615). Both subjects are designed to enable the student to develop a solid grasp of the research process in acupuncture, Chinese medicine and the health sciences. The subject also further develops learners' critical thinking skills and their ability to apply this to clinical practice environments and the relevant research literature. Student interest is encouraged and encouraged towards the relevancy of and need for research into the health professions, clinical practice and acupuncture and Chinese medicine. Together, both subjects provide an important foundation for students considering further development of their critical thinking skills through formalised learning pathways in honours, masters (by research) or dissertation research programs. Equally, the subjects provide students with the knowledge, skills and capabilities to engage in evidence-based approaches and evaluations of their own clinical practice and inquiry-oriented approach to clinical assessment and evaluation.

Typical availability
Spring semester, City campus

91615 Evaluating TCM: Theory, Practice and Research 2
6cp; 8hpw
Requisites: 91607 Research Methods 1 (Acupuncture) OR 91614 Evaluating TCM: Theory, Practice and Research 1
This subject builds on material provided in the requisite subject. It enables the student to have a solid grasp of the research process in acupuncture and the health sciences, thereby encouraging the ability to be a lifelong learner. As such, it is an important foundation for students undertaking postgraduate studies. The subject also further develops learners' critical thinking skills and their ability to apply this to clinical practice environments and the relevant research literature. Student interest is encouraged and encouraged towards the relevancy of and need for research into the health professions, clinical practice and acupuncture and Chinese medicine. Together, this subject and its requisite subject provide an important foundation for students considering further development of their critical thinking skills through formalised learning pathways in honours, masters (by research) or dissertation research programs. Equally, the subjects provide students with the knowledge, skills and capabilities to engage in evidence-based approaches and evaluations of their own clinical practice and inquiry-oriented approach to clinical assessment and evaluation.

Typical availability
Spring semester, City campus

91703 Physiological Systems
6cp; 4hpw
Requisites: [91400 Human Anatomy and Physiology OR 91702 Medical Science 1 and 91702 Medical Science 2. It provides an understanding of cell membrane transport processes and how these principles apply to the body; the importance of ion channels generally in cell physiology and the application of ion channels to nanotechnology; the role of ion channels in the physiology of the cardiovascular system; and mechanisms of fluid secretion in the kidneys and regulation of extracellular fluid composition and volume. The subject encourages students to be active learners.

Typical availability
Autumn semester, City campus

91705 Medical Devices and Diagnostics
6cp; 4hpw
Requisites: [91400 Human Anatomy and Physiology OR 91702 Medical Science 1 AND 68041 Physical Aspects of Nature OR 68101 Foundations of Physics OR 68037 Physical Modelling]. These requisites may not apply to students in certain courses. See access conditions.
This subject provides an introduction to the principles of operation and use of typical devices encountered in medical practice. Specific emphasis is given to fundamental principles underpinning implantable devices including biomaterials, biocompatibility and device design. Transduction techniques, such as pressure, internal voltage signals, temperature, sound, fluid volumes, and light as applied in the measurement of blood pressure, cardiac output, ECG, body temperature, respiratory volumes and capacities and blood oxygen saturation, are discussed. Principles of active stimulation of various organs such as heart, nervous tissue and muscle are also taught. Fundamental imaging principles relevant to medical imaging modalities such as ultrasound, X-ray, CT and endoscopy are also presented. An overview of the medical device regulatory framework is explored.

Typical availability
Spring semester, City campus

91706 Neuroscience
6cp; 5hpw
Requisites: [I27111 Mechanics of Human Motion AND 27180 Functional Kinesiology AND 91429 Physiological Bases of Human Movement OR 91703 Physiological Systems]. This subject provides an advanced understanding of the physiological basis of the nervous system. It advances physiological subjects by providing an in-depth study of neuroscience. It covers physiology of excitatory tissue and introductory neurochemistry; synaptic transmission and neurotransmitter systems, and functions of the nervous system. The subject also provides an understanding of the sensory system, and smell and taste and the brain, chemical control of the brain and behaviour, sleep, emotion and memory systems and learning, and disease states such as schizophrenia and mental illness. Emphasis is placed on student participation as active learners, for example in presentation of seminars and tutorial group participation.

Typical availability
Autumn semester, City campus

91707 Pharmacology 1
6cp; 6hpw (average)
Requisites: [91703 Physiological Systems AND 91161 Cell Biology and Genetics OR 91313 Biomolecules: Structure and Function]. These requisites may not apply to students in certain courses. See access conditions.
This subject provides the introductory principles governing drug and xenobiotic action to be developed further in the subject Pharmacology 2. It is designed to foster a problem-solving approach to pharmacology with particular emphasis on applying molecular pharmacology concepts to pathophysiological problems. Major objectives are to develop the concepts of dose response relationships and the specificity of drug action. Topics covered include: therapeutic index and the concept of selective toxicity; chemical neurotransmitters, ion channels and receptors as determinants of drug action in the
central and peripheral nervous systems; and clinical efficacy of the major pharmacology drug classes used in the treatment of pathophysiological processes involving the nervous system. Effects of drugs can be measured at the molecular level through to intact living organisms. It is a relatively new discipline that is closely related to physiology and biochemistry although other biological sciences, such as zoology, pathology, microbiology, psychology, immunology, etc., are relevant to it. Conversely, pharmacology can often contribute significantly to these subjects. Chemical considerations are also involved in such aspects of pharmacology as the relationship between structure and activity and the physicochemical properties of drugs which affect their distribution in the body and their mode of action.

Until recently, the more therapeutic aspects of pharmacology have been the principal concern of pharmacologists, that is, drugs were primarily studied in the hope of obtaining knowledge that might lead to the better treatment of disease and to the better understanding of physiological processes. However, in recent years considerations of public health have become increasingly involved with pharmacological matters. This is in part due to the great increase in the use and abuse of drugs, both by self-medication and by prescriptions. Among other consequences, this has brought about a rise in the incidence of unwanted side-effects, especially when mixtures of drugs are used. It has also become increasingly apparent in recent times that the whole earth is becoming contaminated by chemicals such as pesticides, which are deliberately distributed, and also by waste products from numerous industrial processes. Some of these substances have lasting deleterious effects on biological processes, thus their study properly involves a branch of pharmacology known as toxicology. As well as the contaminations directly due to human activity, there are also toxic substances originating from other living organisms and these too are important aspects of toxicology. Toxicology is involved in studying these adverse effects of drugs and toxins on living systems. Within pharmacology there are also numerous subdisciplines (e.g. molecular pharmacology, chemotherapy, neuropharmacology, etc.).

It is important that there should be as many informed people as possible throughout the community, not just health and medical workers, if these problems are to be assessed accurately and dealt with efficiently. A study of pharmacology therefore is a desirable part of any general education and is especially relevant to those intending to pursue careers in teaching, law, local government and many scientific occupations. For this reason, this subject is directed not only towards training specialist pharmacologists but also aims at providing a broad education about drugs / chemicals that may affect living organisms. In order to do this, the fundamental principles of pharmacology must be fully understood before the applied aspects of drug action can be discussed.

### Typical availability

**Autumn semester, City campus**

#### 91708 Medical and Applied Physiology

6cp; 6hpw  
Requisite(s): 91703 Physiological Systems

This subject builds on material provided in the prerequisite subject. It provides the student with an understanding of aspects of medical and applied physiology with emphasis on the underlying physiological mechanisms and their implications for medicine. The subject encourages students to evaluate the connections between human physiology and health outcome. The teaching material covers applied and medical physiology of areas such as brain function and disorders, medical imaging, cardiac and muscle activity, biofeedback, drugs and alcohol, temperature regulation, exercise physiology, hereditary disease, fatigue and eye and other related areas. A lab-based experiment conducted by students provides a practical view of physiological mechanisms and measurements.

**Typical availability**  
Spring semester, City campus

#### 91709 Pharmacology 2

6cp; 6hpw  
Requisite(s): 91707 Pharmacology 1

These requisites may not apply to students in certain courses. See access conditions.

This subject develops and extends the principles governing drug and xenobiotic action covered in 91707 Pharmacology 1. It is designed to foster a problem-solving approach to pharmacology with particular emphasis on applying molecular pharmacology concepts to pathophysiological problems. The objectives are to further develop the concept of receptors as cellular determinants of drug and xenobiotic action and to develop the concepts of modulated receptors and ion channels in determining drug action. We examine selective toxicity in the treatment of microbial, viral and protozoal infections as well as toxicokinetic factors, defense mechanisms, cellular reactivity, receptors and binding sites as determinants of target organ toxicity. The clinical efficacy of the major pharmacology drug classes used in the treatment of cancer, affective and psychotic illnesses, cardiovascular disease, lipid disorders, blood disorders, diabetes, peptic ulcers, nausea and vomiting, and disorders of the respiratory and musculoskeletal systems are examined. In addition, the abuse of drugs is examined including tobacco, alcohol, CNS stimulants, psychotomimetics and the mechanisms underlying drug dependence, including treatment of drug overdose and antidotal therapy in the context of clinical toxicology. Lectures are complemented by a tutorial program which emphasises the clinical nature of the subject and develops lecture material using a variety of tutorial and case-study approaches.

### Typical availability

**Spring semester, City campus**

#### 91774 Master of Science Thesis

0cp  
For subject description, refer to the Master of Science (by research) (CO3029) (see page 490).

**Typical availability**  
Autumn semester, City campus

**Spring semester, City campus**

#### 92014 Role Transition and Professional Identity

6cp; lectures: 2hpw laboratories; 2hpw  
Undergraduate

In this subject, students examine the registered nurse (RN) role and compare and contrast this role with other categories of health worker in varying contexts of practice. The subject places particular emphasis on addressing the developmental needs of enrolled nurses (EN) as they begin their educational transition to becoming a RN. Aspects explored include frameworks for clinical judgment and decision-making, intra and interprofessional health care and learning, political awareness and self-development and lifelong learning. Necessary components such as: developing a professional attitude in the RN role, knowledge about professional nursing standards, role definition, and quality and safety provide sound scaffolding to enable clinical leadership. The concept of reflection is explored and forms part of the assessment. This subject outlines the transition of nursing as a profession and explores the forces that have shaped, and continue to shape nursing practice as a collaborative professional endeavour. At the core of the subject is the view that a 'professional disposition' articulates with all subjects and that successful transition to a professional practitioner is optimised by this characteristic. Career planning and personal record keeping is introduced to facilitate this process.

**Typical availability**  
Autumn semester, Kuring-gai campus

#### 92015 Fundamentals of Mental Health Nursing (Graduate Entry)

6cp; lectures and laboratories (blended); 4hpw, 160 clinical hours  
Requisite(s): 92017 Health Assessment and Nursing Therapeutics

There are also course requisites for this subject. See access conditions.

**Undergraduate**

Students explore a range of issues related to the promotion of health and the nursing care of people in need of mental health care, the impact for their families and carers, and the importance of mental health nursing in all health care settings including inpatient and community-based services. The knowledge, attitudes and skills
required for contemporary mental health nursing practice - such as interpersonal skills to build and maintain therapeutic relationships, assessment processes, therapeutic interventions, development of partnerships with consumers in their recovery, inter-professional collaboration and reflective practice - are explored. Mental health nursing practice that places the consumer at the centre of all mental health services is a key feature of this subject.

**Typical availability**
Spring semester, Kuring-gai campus

92016 Workshops for Practice Readiness (Graduate Entry)
6cp; workshops: 6 weeks x 5hpw
Undergraduate

This subject focuses on a number of discrete, interdependent and foundational nursing issues that have been identified as particularly challenging and important to beginning practice and learning as a student nurse. These issues are explored through workshops which allows students to gain knowledge in each topic area and actively use this knowledge in the workshop situation to build meaning, understanding and connection through guided experiential immersion in inquiry-based activities. This subject is aimed at strengthening core literacies related to practice readiness which include: interpersonal skills, intrapersonal knowledge, quality and safety awareness, behavioural management skills; dealing with challenging patient behaviours such as anxiety, anger and grief, leadership, self awareness and self concept, and the assessment and management of withdrawal from alcohol and other drugs.

**Typical availability**
Spring semester, Kuring-gai campus

92017 Health Assessment and Nursing Therapeutics
6cp; 4hpw [blended], laboratories: 9hpw
Undergraduate

This subject focuses on assisting students to understand the role of the registered nurse and the way in which nursing care is planned and delivered in Australia. Students are introduced to nursing as a patient-centred therapeutic process and a skilled activity that aims to promote and maintain health in primary and acute care. Nursing is considered within a trans-disciplinary framework and emphasis is placed on comprehensive patient health assessments, promoting and maintaining health by encouraging and reinforcing positive health practices and preventing health breakdown through early detection and intervention. After the completion of this subject students have developed the knowledge and skills to identify patient needs, provide essential nursing care safely, and begin to understand actual and potential problems that can be experienced by patients. Students explore elective and emergency clinical presentations and propose and implement appropriate evidence-based interventions. Skills in prioritisation, effective verbal and written communication, clinical decision-making and an introduction to nursing leadership is incorporated. This subject facilitates a smooth transition into the program of study that follows.

**Typical availability**
Autumn semester, Kuring-gai campus

92018 Building Resilience in Mothers and Midwives
6cp
Postgraduate

This subject focuses on the concept of resilience and provides midwives with the knowledge and skills needed to promote emotional well-being in childbearing women as well as themselves and their colleagues. Resilience is the capacity to bounce back or respond to adversity. In this subject the student develops a greater appreciation of emotional/mental health issues affecting midwives, childbearing women and families, the impact of personal communication, and the impact of programs such as Mindfulness Based Stress Reduction and Mindfulness Based Cognitive Therapy. Students are provided with opportunities to personally experience a range of evidence-based strategies such as Mindfulness that have been demonstrated to positively affect well-being and contribute to personal resilience. Evidence demonstrating that the skills of meditation and compassion effectively enhance the care we can offer will be explored as powerful antidotes to compassion fatigue and burnout. The underlying neural basis of the effects of mindfulness will also be explored. Through an emerging and/or increasing awareness of mindful midwifery practice, students will develop a greater appreciation of how to create and nurture resilience in themselves and their colleagues and in families that have not yet been able to acquire it.

**Typical availability**
Autumn semester, City campus

92019 Contemporary Clinical Midwifery Practice
6cp; mixed mode and half-day workshops, supported by online learning
Postgraduate

This is a self-directed subject that provides students with an opportunity to undertake an in-depth exploration of a specific clinical practice topic. The subject requires students to expand their clinical and professional knowledge and extend and refine their practice. Learning experiences are directed to the provision of care, the clinical environment and services, professional responsibility, leadership, and collaboration and problem solving. Students work with the coordinator of the subject to choose a relevant practice issue, develop learning objectives and design a program of work that meets their individual learning needs.

**Typical availability**
Autumn semester, City campus

92020 Midwifery in Context
6cp; mixed mode and four workshop days, supported by online learning
Postgraduate

This subject seeks to engage students in a critical analysis of the historical and current maternity health care issues, in particular those that impact on midwifery globally. The subject introduces the student to the social, political, cultural and economic imperatives that drive maternity services. It critically examines these factors, exploring their impact on the role of the midwife within both the international and national context. In so doing the subject aims to shift students' awareness from the details of day-to-day work to the larger issues of professionalism, leadership, advocacy and the development of midwifery practice.

**Typical availability**
Autumn semester, City campus

92021 Perinatal Mental Health
6cp
Postgraduate

Perinatal mental health practice is based on a population health approach to enable mental health promotion activities and the early recognition of protective and risk factors that impact on women and their family’s mental health during pregnancy and the first year after birth. Skills in perinatal mental health assessment are developed and refined. Students explore best practice approaches for the management of perinatal mental health and illness. Importantly students gain the skills to critically discuss community perceptions about perinatal mental health. Perinatal mental health is explored using understandings of cultural constructs.

**Typical availability**
Spring semester, City campus

92022 Improving Quality and Safety in Health Care
6cp; 4 days block

This subject covers the essential knowledge that health service practitioners and managers need concerning risk management, quality and safety. This content includes:
- the origin of risk and its management from a human factors and health systems perspective
- clinical governance and incident monitoring, analysis, investigation and reporting systems and processes
- team-based, personal and interpersonal skills in open disclosure, cultural awareness patient and family engagement and organisational communication
- legal, regulatory and professional requirements

An emphasis is placed on risk management and continuing practice improvement linking the theory of risk management and patient safety with their application in workplace and health service settings.
The subject is taught online and in block mode using a variety of teaching methods such as class exercises around set readings, formal lectures, guest lecturers, student presentations and workshops in small groups.

92023 Health Services Resource Management
6cp
This subject is designed to equip students with the skills necessary to manage financial and other resources within the health care system in Australia. It develops students' abilities to understand and apply financial information in making business decisions and assessing the performance of health service organisations. It is structured for students with minimal knowledge of technical accounting.

The subject is targeted at resource management practices common within the public and private health systems in Australia, however, the principles underlying the content are applicable to the management of resources in health services in other countries and systems. The subject is taught in block mode supplemented with online assignments, online access to extensive notes and exercises. Students are allocated to online study groups where contribution forms part of the subject assessment.

92024 Medical Surgical Nursing (Graduate Entry)
6cp; lecture: 2hpw (blended), laboratory: 2hpw (blended), 160 clinical hours
Requisite(s): 92017c Health Assessment and Nursing Therapeutics
There are also course requisites for this subject. See access conditions.

Undergraduate
In this subject, students develop their understanding and application of nursing processes with increasing emphasis on effective critical reasoning and sound judgment. The focus of learning is on the nursing management of adults admitted to tertiary-care facilities with acute episodic medical-surgical conditions. Students analyse and apply their knowledge and problem-solving skills to clinical case scenarios based on commonly encountered medical-surgical problems, which includes further development of the scenarios introduced in 92017 Health Assessment and Nursing Therapeutics. Nursing competencies are reinforced and relevant nursing skills strengthened and extended including: vital signs and neurological observations, infection control, administration of parenteral medications, generic surgical nursing practice, complex wound care, pain assessment and management, fluid and electrolyte replacement, enteral nutrition and urinary catheterisation. Students are exposed to simulated and scenario-based emergency situations and are guided to develop appropriate evidence-based, patient-focused responses. Quality and safety in healthcare is introduced as a preparation for practice and all learning experiences focus on providing safe and effective care to individuals and families.

Typical availability
Spring semester, City campus

92025 Fundamentals of Mental Health Nursing (Enrolled Nurse Entry 1)
6cp; lectures and workshops (blended): 4hpw, 80 clinical hours
Undergraduate
This subject begins by examining theories of psychology, health psychology, sociology and life transition as they relate to mental health and wellbeing. Concepts of stress, coping and adaptation are introduced and the influence of values, beliefs, attitudes and attributions on perceptions of health, illness and methods of bringing about changes in health behaviour are presented. Students explore the epidemiology of mental illness in NSW. A number of issues related to mental health nursing are considered from a registered nurse (RN) perspective including the nursing care of people in need of mental health care, the impact for their families and carers, the importance of mental health nursing in all health care settings including inpatient and community-based services, and the knowledge, attitudes and skills required for contemporary mental health practice. Mental health nursing practice that places the consumer at the centre of all mental health services is a key feature of this subject.

Typical availability
Spring semester, Kuring-gai campus

92050 Policy, Power and Politics in Health Care
6cp; intensive
Postgraduate
This subject covers the essential knowledge of the policy and political environment in which health services operate. Health services managers need to understand the political environment in which decisions are made, how health policies are formulated and enacted and how they are received. The subject covers the theoretical framework for studying policy and politics particularly in relation to government policy, the ways policies are formulated, the balance of power between different stakeholders in the development of health services policies and decisions, how the health and political systems manage issues and the influence of the stakeholders and the media in the management of health services issues.

Typical availability
Autumn semester, City campus

Note(s)
This subject was formerly called Power and Politics in Health Care.

92051 Health Services Management and Legal Issues
6cp; intensive
Postgraduate
This subject covers the essential knowledge that health services managers need to have, such as the sources of law (common law, criminal law, statute law), the development of health services regulation, health services administrative law, tort law and its relationship to health services managers, the legal obligations of health services employers, regulations and statute law relevant to public health and the laws that apply to the clinical operations of hospitals and health services.

Typical availability
Spring semester, City campus

92052 Master of Sport and Exercise Thesis
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
e-mail NMHResearch.StudentsAdmin@uts.edu.au

92054 Research and Statistics for Sport and Exercise
6cp
Postgraduate
This subject assumes a basic knowledge of the range of research methods used in sport and exercise and the ability to use statistical analysis packages. It covers two areas: conceptual and theoretical approaches to research and quantitative research methods. The first of these addresses the nature of research and its relationship to the development of knowledge and conceptualisation and design of research projects. The quantitative area involves the application of statistical methods and exploration of the more advanced capabilities of the PASW package.

Typical availability
Autumn semester, Kuring-gai campus

92055 Sport and Exercise Science Honours Dissertation 1
18cp
For subject description, contact UTS: Health.

92056 Sport and Exercise Science Honours Dissertation 2
24cp
For subject description, contact UTS: Health.

92057 Sport and Exercise Management Honours Dissertation 1
18cp
For subject description, contact UTS: Health.

92058 Sport and Exercise Management Honours Dissertation 2
24cp
For subject description, contact UTS: Health.
92277 Communication for the Complementary Therapist
6cp
This subject introduces students to the theories and processes of effective communication with patients and facilitates the development of interpersonal skills in the complementary therapist. Particular focus is given to facilitating the development of essential interpersonal and helping skills that underpin the therapeutic relationship.

Typical availability
Autumn semester, City campus

92271 Foundations of Midwifery Practice
6cp; 14 weeks, 3hpw theoretical
Undergraduate
This subject introduces students to childbearing as a normal, but significant life event for a woman and her family. Students apply their developing understanding of anatomy and physiology to childbearing. Through the use of simulated environments, students develop communication skills to enable them to work effectively with women through the childbearing period. The subject focuses on the physical and emotional changes during pregnancy, labour and birth and the postnatal period and their potential effects on women’s experience of childbearing.

Typical availability
Autumn semester, City campus

92272 Anatomy and Physiology: Pregnancy and Childbirth
6cp; 14 weeks, 5hpw theoretical
Undergraduate
Students study anatomy and physiology with particular emphasis on pregnancy, labour and birth, the puerperium, and the foetus and neonate. The human biological structure and function are studied and students begin to demonstrate links with how midwives use this knowledge in practice. A human-systems-based approach is used.

Typical availability
Autumn semester, City campus

922728 Complex Newborn Care
6cp; 10 weeks, 3hpw theoretical, 30 clinical hours, 25 hours follow through experience
Requisites: 92630 Midwifery Practice 2: Supporting Women
Undergraduate
The care of the neonate who experiences deviations from normal health is the focus of this subject. Health problems associated with variations in gestational age and intrauterine growth, difficulties with feeding, adaptation to extrauterine life and a range of body system anomalies form part of the content covered. Students are introduced to the concept of family-centred care in the neonatal nursery and are required to formulate an in-depth understanding of the impact on the woman and her family of having a baby with complex needs. The importance of the midwives’ role in supporting the woman through this experience is explored. The subject also has a clinical component.

92227 Australian Health Care System
6cp; 4 weeks, 3hpw theoretical
Undergraduate
This subject provides an opportunity for students to study the structure of the Australian health care system with particular focus on the provision of services in rural and remote settings. The role of both federal and state governments in the provision of health services is examined along with the opportunity to critique financing and legislation in both the public and private sectors. The place of government, policy development and legislation in defining practice and policy is also studied as well as the mechanisms and results of legislative change. Challenges in providing health care in metropolitan, regional and remote settings are explored with particular emphasis on maternity services.

Typical availability
Autumn semester, City campus

92283 Challenges in Midwifery Practice
6cp; 3hpw (workshop)
Requisites: 92280 Complex Newborn Care AND 92281 Complex Midwifery Practice
Undergraduate
This subject examines the role of the midwife when working with women and families who have social or emotional complexities. Challenging issues, such as the role of the midwife in complying with child protection and other relevant legislation, are included. Students also explore the complexities for women who have utilised artificial reproductive technologies. The subject builds on students’ understanding of the community resources available to women who require additional support. Legal, ethical and professional issues regarding the challenges in midwifery care are covered.

92284 Rural Midwifery Practice
6cp; 10 weeks, 2hpw theoretical, 80 clinical hours, 50 hours follow through experience
Requisites: 92281 Complex Midwifery Practice AND 92280 Complex Newborn Care
Undergraduate
This subject builds on learning from the students’ experience in the previous practice subjects. Students have learning experiences in each of the major areas of midwifery care and continue to form ‘follow through’ relationships with childbearing women. The subject provides a platform for the students to consider possibilities for working in rural and remote Australia with regard to their role and scope of practice and the potential further education they might need to work outside these parameters.

92285 Collaborative Midwifery Practice
6cp; 4 weeks, 3hpw theoretical
Undergraduate
This subject examines the role of the midwife in the community of practitioners. In particular, it examines the relationships of midwives with medical practitioners as collaborative partners in the care of childbearing women. It addresses issues of midwifery practice within institutions and within the community as a primary health care initiative. It challenges the rhetoric of the place of women as partners in care and the realities of women experiencing midwifery care.

92286 International Perspectives in Midwifery
6cp; 10 weeks, 2hpw theoretical
Undergraduate
As students near the end of their course, this subject enables them to identify their role in Australia and in the wider community of midwifery. The implications and responsibilities that they are about to face as licensed practitioners is explored in relation to contemporary issues in the regulation of midwives. An exploration and critique of the ideologies associated with Western constructs of childbirth and maternity care allow for a new dimension in the students’ learning. It examines the role of international bodies such as the World Health Organization in the maintenance of women’s health and health care and the International Confederation of Midwives in the practice and regulation of midwifery.
92287 Midwifery Caseload Practice
6cp; 10 weeks, 2hpw theoretical, 125 clinical hours, 50 hours follow through experience
Requisite(s): 120 credit points of completed study in C10225
Bachelor of Midwifery
Undergraduate
This subject enables students to build on their learning in previous practice subjects so that they have the skills, knowledge and confidence to provide midwifery continuity of care. The subject enables opportunities to attain competence in all areas of midwifery practice including: keeping birth normal, electronic fetal monitoring, obstetric emergencies, neonatal resuscitation, perineal suturing and supporting women experiencing breastfeeding difficulties. Students continue to undertake their ‘follow-through’ continuity experiences. In particular, they work in a midwifery group practice model alongside midwives who work in caseload practice.

92288 Focused Midwifery Practice
6cp; 5 theoretical hours, 125 clinical hours, 50 hours follow through experience
Requisite(s): 120 credit points of completed study in C10225
Bachelor of Midwifery
Undergraduate
In this subject it is expected that the students complete the practice requirements for registration set down by the Nurses and Midwives Board NSW. Students develop their ability to make midwifery judgments, to carry out the midwifery care that results logically from the judgments made and to evaluate the care given. Students gain competence in applying the principles of evidence-based midwifery to their practice and are able to critique their work.

92291 Nursing Honours Dissertation 1
18cp
For details on this subject contact the faculty research administrator:
Julie Funnell
telephone +61 2 9514 4879
email Julie.Funnell@uts.edu.au

92292 Nursing Honours Dissertation 2
18cp
For details on this subject contact the faculty research administrator:
Julie Funnell
telephone +61 2 9514 4879
email Julie.Funnell@uts.edu.au

92295 Advanced Health Services Planning
6cp
This subject develops advanced skills and competencies of health service planners and managers through case studies and workshops, including input from experienced health service planners. This subject requires students to explore in depth complex health services planning issues. The subject is based around real life planning assignments developed by senior health service planners. The case studies incorporate the issues faced in practice with examples of planning assignments involving divided communities, pressure from health professional advocacy groups, competing forces within the political process, and lack of complete data; as well as others. The subject is taught online and with a limited number of face-to-face tutorials organised in block mode days.

Typical availability
Spring semester, City campus

92296 Epidemiology and Population Health
6cp
This subject covers the essential knowledge that health service planners and managers need concerning population health and epidemiology. Topics covered include the social determinants of disease, the health of the Australian population, epidemiological methods and concepts, understanding epidemiological evidence and its limitations, using population health data and how findings are used to support health services planning, and management decisions. An emphasis is placed on linking population health and epidemiological theory with application in health services settings and decision-making. The subject is taught online and in block mode using a variety of teaching methods such as class exercises around set readings, formal lectures including guest lecturers, tutorials and student presentations.

92297 Health Systems and Change
6cp
Health services in the modern world involve large systems constantly changing. Health service managers and planners require competencies in understanding systems in the health services, implementing change and project management. This subject develops students' knowledge and skills in understanding and managing health systems around information technology, health service processes and capital development. It also develops students' skills in project management, service implementation and improvement, systems redesign and implementing change.

The method of teaching includes case studies and practical workshops. Students are expected to bring workplace examples of systems redesign projects for analysis. The subject is taught online and with a limited number of face-to-face workshops.

Typical availability
Autumn semester, Kuring-gai campus

92312 Integrated Nursing Practice
6cp; workshop: 4hpw [blended], 160 clinical hours
Requisite(s): [92330 Complex Nursing Care: Medical Surgical AND 92316 Complex Nursing Care: Mental Health] AND 92331c Integrated Nursing Concepts
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
The subject consolidates and develops clinical practice undertaken over the course to prepare students for entry to the nursing workforce as a member of the health care team. The central focus of the subject is delivery and coordination of care for chronic and complex conditions, in order to practise as a beginning registered nurse. Students undertake an extended and continuous clinical placement experience that reinforces clinical learning integral to nursing practice and provides an environment for consolidating nursing practice highlighting leadership, management and workplace culture. The clinical placement experience is complemented by experiential workshops focusing on multidimensional simulated cases involving common chronic and complex conditions, and multiple morbidities. The workshops are conducted to develop students’ abilities, knowledge, techniques and skills for integrated care across a diverse range of different patient care situations. Students undertake inquiry-based reflection and clinical judgment to plan, initiate, and evaluate care.

Typical availability
Spring semester, City campus

92313 Assessment and Therapeutics in Health Care 1
6cp; lectures: 2hpw [blended], laboratories: 3hpw, 40 clinical hours
Undergraduate
Students are introduced to nursing as a therapeutic process and skilled activity that aims to promote and maintain health through collaborative partnerships with patients at a primary care level. Health is viewed as a dynamic phenomenon which varies as the individual transitions through a cyclical continuum of health and wellness, disease and illness. Determinants of health encompass a range of factors including lifestyle, disability and chronic health conditions. Within a trans-disciplinary team, the nurse undertakes comprehensive patient health assessments, promoting and maintaining health by encouraging and reinforcing positive health practices and preventing health breakdown through early detection and intervention. The nurse supports clients to be active participants in managing their health, facilitating health literacy through the provision of health information and health education. The nurse provides person-centred care that empowers patients to achieve their optimum health outcomes by facilitating improvement and adaptation within the context of their individual social cultural environment, needs, abilities and resources.

Typical availability
Autumn semester, City campus

92296 Epidemiology and Population Health
6cp
This subject covers the essential knowledge that health service planners and managers need concerning population health and epidemiology. Topics covered include the social determinants of disease, the health of the Australian population, epidemiological methods and concepts, understanding epidemiological evidence and its limitations, using population health data and how findings are used to support health services planning, and management decisions. An emphasis is placed on linking population health and epidemiological theory with application in health services settings and decision-making. The subject is taught online and in block mode using a variety of teaching methods such as class exercises around set readings, formal lectures including guest lecturers, tutorials and student presentations.
First-year experience videos

View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utchannel#p/u/16/cNuZ12F5eMK
- Academic video: www.youtube.com/user/utchannel#p/u/27/M9z_vW4IP2I

92314 Assessment and Therapeutics in Health Care 2
6cp; lectures: 2hpw (blended), laboratories: 3hpw, 80 clinical hours
Undergraduate

In this subject students explore an individual’s response to disease and illness. Integral to this is recognition of each individual’s unique response to episodes of disease and illness, based upon multifactorial determinants including the disease process, pre-existing co-morbidities, therapeutic interventions and patient factors. Students are encouraged to provide a holistic approach to facilitating the patient’s transition to recovery, rehabilitation or adaptation including recognition of the psychosocial dimensions of the patient and their relationship to the wider society. This incorporates comprehensive assessment and nursing interventions that support and assist the whole person in the context of acute care nursing. Elective and emergency interventions and appropriate intervention based on the urgency of the situation are investigated. Skills in prioritisation, effective verbal and written communication and clinical decision-making are incorporated.

Typical availability
Spring semester, City campus

Spring semester, Kuring-gai campus

92315 Nursing Care of the Older Person
6cp; lectures: 2hpw (1hr face-to-face, 1hr blended learning); laboratory: 2hpw, 80 clinical hours
Requisite/s: [91529 Pathophysiology and Pharmacology OR 92024 Medical Surgical Nursing (Graduate Entry)] OR [92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2]

These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate

In this subject students explore the foundational principles and practice of person-centred nursing care of the older person in a variety of healthcare contexts. Students have the opportunity to explore the normal ageing process and the diseases and dysfunctions that can occur in older age. The provision of quality care to the older person with multiple physical, social and psychological co-morbidities is emphasised. Students gain skills in undertaking comprehensive social histories and health assessments of older persons and gain an understanding of interdisciplinary approaches to older person care.

Typical availability
Autumn semester, City campus
Spring semester, City campus

Spring semester, Kuring-gai campus

92316 Complex Nursing Care: Mental Health
6cp; lecture: 2hpw (blended), laboratory/workshops: 2hpw (blended), 80 clinical hours
Requisite/s: [92322 Fundamentals of Mental Health Nursing OR 92015 Fundamentals of Mental Health Nursing (Graduate Entry) OR 92025 Fundamentals of Mental Health Nursing (Enrolled Nurse Entry 1) OR 92322 Medical Surgical Nursing]

These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate

In this subject students continue the exploration of approaches to nursing people with mental health challenges into different mental health care contexts, focusing more on diverse and complex care situations. The subject takes as its organisation two axes: an intervention focus and a focus on special populations for consumers and families on their recovery journey. The interventions that provide a focus in the subject are: a solid grounding in counselling skills cognitive behavioural interventions; group processes and group skills; therapeutic interactions with voice hearers; working with people with a range of problems and disorders; sound techniques in aggression management; and an understanding of the place of mental health promotion strategies. The special populations of interest in this subject include: those with high prevalence disorders such as anxiety, depression, and stress; people experiencing alcohol and other drug use disorders; dual diagnosis; conditions co-morbidity with mental illnesses and treatments; those with eating disorders; ethically, culturally and linguistically diverse populations; age-specific populations; and Aboriginal and Torres Strait Islander populations.

Typical availability
Autumn semester, City campus
Autumn semester, Kuring-gai campus

92317 Contemporary Indigenous Health and Wellbeing
6cp; lectures: 2hpw (blended) x 10 weeks, tutorials: 2hpw x 10 weeks
Undergraduate

This subject contributes to the overall aims of the course by familiarising students with the current health status of Aboriginal and Torres Strait Islander people in Australia and also increasing their understanding of the concept of cultural safety which can then be applied to practice. Nurses have a major role to play in improving the health of Aboriginal and Torres Strait Islander people though the contribution they can make in primary health and acute care. This is achieved by exploring the relationship between Australia’s history of colonisation, relevant social and healthcare policy, and Aboriginal and Torres Strait Islander peoples’ health care issues. It includes an exploration of the role of the nurse and the social and cultural implications of engagement with the healthcare system for the Aboriginal and Torres Strait Islander community. The subject aims to support the student to develop a greater understanding of the need to provide care that is culturally safe, competent and consistent with the codes of professional conduct in Australia.

Typical availability
Autumn semester, City campus
Autumn semester, Kuring-gai campus

92318 Evidence for Nursing
6cp; lecture: 2hpw (blended), tutorial: 2hpw (blended)
Undergraduate

This subject develops skills in accessing and appraising the evidence upon which to base nursing practice. This subject builds on student’s understandings of the utility of published practice guidelines. Focus is on selection and appraisal of published primary research studies and applying the evidence to selected clinical situations. The subject focuses mainly on the appraisal of research using quantitative data analysis and the determination of indicators of clinical effectiveness. The appraisal of systematic reviews is also introduced. Popular health claims are evaluated as a method of understanding how the indicators of clinical effectiveness are used.

Typical availability
Spring semester, City campus
Spring semester, Kuring-gai campus

92319 Family and Children’s Nursing
6cp; lecture: 2hpw (blended), laboratory/workshop: 2hpw, 80 clinical hours
Requisite/s: [92322 Medical Surgical Nursing OR 92024 Medical Surgical Nursing (Graduate Entry)] OR [92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2]

These requisites may not apply to students in certain courses. See access conditions.
Undergraduate

This subject contributes to the student’s understanding of families and aspects of family life in contemporary Australian society. Health promotion and primary health care within a family context, family formation and structure, as well as cross-cultural understandings of the family are highlighted. This subject explores nursing issues related to the child bearing family, which include an examination of the family in crisis, parenting styles and the impact of development disability. Key acute and chronic health issues in children and adolescents are a major focus of this subject and child protection, child abuse and neglect, and guardianship issues are covered in the
context of children at risk. This subject enables students to develop the personal, professional and intellectual attributes, along with the technical knowledge, required to work with children and families.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Kuring-gai campus
- Spring semester, Kuring-gai campus

**92320 Health and Society**
6cp; lecture: 2hpw [blended], tutorial: 2hpw [blended]
Undergraduate

The philosophy and expression of primary health care, health promotion and community development is the basis for therapeutic nursing practice in the community. Health promotion and primary health care as defined by the World Health Organization form the framework for exploring the principles and practice of community health nursing and the dynamic and diverse nature of the community. The influence of power and politics on health care are explored within this framework as are the implications of a culturally diverse society.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Kuring-gai campus
- Spring semester, Kuring-gai campus

**92322 Medical Surgical Nursing**
6cp; lecture: 2hpw [blended], laboratory: 2hpw [blended], 80 clinical hours
Requisites(s): 92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate

Students develop their understanding and application of nursing processes with increasing emphasis on effective critical reasoning and sound judgment. The focus of learning is on the nursing management of adults admitted to tertiary-care facilities with acute episodic medical-surgical conditions. Students analyse and apply their knowledge and problem solving skills to clinical case scenarios based on commonly encountered medical-surgical problems. Nursing competencies achieved in Year 1 of the course are reinforced and extended including: vital signs and neurological observations, infection control, administration of parenteral medications, generic surgical nursing practice, complex wound care, pain assessment and management, and fluid and electrolyte replacement. Students are exposed to simulated and scenario-based emergency situations and are guided to develop appropriate evidence-based, patient-focused responses. All learning experiences focus on providing safe and effective care to individuals and families.

**Typical availability**
- Autumn semester, City campus
- Spring semester, City campus
- Autumn semester, Kuring-gai campus
- Spring semester, Kuring-gai campus

**92323 Fundamentals of Mental Health Nursing**
6cp; lectures/workshops: 4hpw [blended], 80 clinical hours
Requisites(s): 92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2
Undergraduate

Students explore a range of issues related to the promotion of health and the nursing care of people in need of mental health care, the impact for their families and carers, and the importance of mental health nursing in all health care settings including inpatient and community-based services. The knowledge, attitudes and skills required for contemporary mental health nursing practice, such as interpersonal skills to build and maintain therapeutic relationships, assessment processes, therapeutic interventions, development of partnerships with consumers in their recovery, inter-professional collaboration and reflective practice are explored. Mental health nursing practice that places the consumer at the centre of all mental health services is a key feature of this subject.

**Typical availability**
- Spring semester, City campus

**92324 Professional Identity**
6cp; lecture: 2hpw [blended], tutorial: 2hpw [blended]
Undergraduate

Students are introduced to what it means to be a professional in contemporary health care practice. This subject focuses on learning about the essential components of professional conduct. Necessary components such as: the right professional attitude, knowledge about professional nursing standards and the ability to establish a work ethic that provides sound scaffolding to enable clinical leadership. Students are encouraged to appreciate their strengths as individuals helping others and how to work towards confidence in using these and learned skills in their everyday nursing experiences. It is important that students become knowledgeable in the standards required for legal and ethical practice and that each student is equipped to begin to use these standards when working with colleagues and patients. The concept of reflection is explored during the semester and forms part of the assessment. Students build on their understanding of social equity in order to make sound and clear judgments. This subject outlines the transition of nursing as a profession and explores the forces that have shaped, and continue to shape nursing practice as a collaborative professional endeavour. At the core of the subject is the view that a professional disposition articulates with all subjects and that successful transition to a professional practitioner is optimised by starting the process early. Career planning and personal record keeping is introduced to facilitate this process.

**Typical availability**
- Spring semester, City campus
- Autumn semester, Kuring-gai campus

**92325 Professionalism in Context**
6cp, 1hpw [lecture], 1hpw [independent learning], 2hpw [tutorial; blended]
Requisites(s): 92014 Role Transition and Professional Identity OR 92017 Health Assessment and Nursing Therapies OR 92324 Professional Identity
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Undergraduate

This subject assists students to prepare for their professional role and explore the attributes required to take on clinical leadership and team work responsibilities in health care. Students explore critical issues that impact on nursing practice, with an emphasis on the effects that power, policy and professional relationships have on health care quality and future directions for nursing in local and international health care contexts. Topics are introduced that reflect current health care challenges and opportunities for nursing to make a positive difference to health service delivery. Policy reports are explored enabling students to incorporate them into existing ethical and legal frameworks thereby increasing their ability to make considered clinical judgments. Professional resources that facilitate successful transition to the registered nurse role are introduced.

**Typical availability**
- Spring semester

**92326 Understanding the Person: Life Transitions**
6cp; lecture: 2hpw [blended], tutorial: 2hpw [blended]
Undergraduate

Students focus on the development of the person and their experiences throughout the lifespan. Health experiences and related behaviours are examined using theories and models from health psychology and sociology. Concepts of stress, coping and adaptation are introduced and the influences of values, beliefs, attitudes and attributions on perceptions of health, illness and health care are examined. The impact of lifestyle behaviours and choices on health and methods of bringing about changes in health behaviours are explored. The sequence of ages and stages as well as the milestones of human growth and development in children and adolescents is introduced. An understanding of these sequences and milestones provides the
nurse with the ability to compare the developing child/adolescent to normal parameters, which is foundational to appropriate care. Relevant psychosocial assessments and nursing interventions are introduced and applied.

**Typical availability**
Autumn semester, City campus,
Autumn semester, Kuring-gai campus

**92327 Workshops for Practice Readiness 1**
6cp; workshops: 5 weeks x 5hpw
Undergraduate
This subject focuses on a number of discrete, interdependent and foundational nursing issues that have been identified as particularly challenging and important to beginning practice and learning as a student nurse. These issues are explored through workshops which allow students to gain knowledge in each topic area and actively use this knowledge in the workshop situation to build meaning, understanding and connection through guided immersion in experiential inquiry-based activities. This subject is aimed at strengthening core literacies related to practice readiness which include: interpersonal skills, intrapersonal knowledge, cognitive frameworks, and quality and safety in the workplace.

**Typical availability**
Autumn semester, City campus,
Autumn semester, Kuring-gai campus

**92328 Workshops for Practice Readiness 2**
6cp; workshops: 5 weeks x 5hpw
This subject focuses on a number of discrete, interdependent and foundational nursing issues that have been identified as particularly challenging and important to beginning practice and learning as a student nurse. These issues are explored through workshops that allow students to gain knowledge in each topic area and actively use this knowledge in the workshop situation to build meaning, understanding and connection through guided experiential immersion in inquiry-based activities. This subject is aimed at strengthening core literacies related to practice readiness, including interpersonal skills, intrapersonal knowledge, cognitive, management skills; dealing with challenging behaviours such as anxiety, anger and grief; and the assessment and management of withdrawal from alcohol and other drugs.

**Typical availability**
Spring semester, City campus
Spring semester, Kuring-gai campus

**92329 Accountability in Nursing Practice**
6cp; lecture: 2hpw [blended], tutorial: 2hpw [blended]
Requisites: 92014 Role Transition and Professional Identity OR 92017 Health Assessment and Nursing Therapeutics OR 92324 Professional Identity
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject builds on the discussion of professional identity by focusing on how the ethical and legal texture of the practice settings of registered nurses engages and challenges their professional status. This focus is mediated by provision of educational opportunities which enable students to reflectively incorporate an informed understanding of accountability in nursing practice into their modes of perception, thought, feeling and response, and thus actively further their growth into the role of a registered nurse. Students are encouraged to appreciate that clinical capability and leadership cannot be accomplished without an understanding of the full range of accountability in practice. This subject requires student involvement to be of a kind that further develops their critical and analytical abilities, their competence with the variety of literacies required of professional practitioners, and their skill in the appropriate expression and communication of ideas.

**Typical availability**
Autumn semester, City campus
Autumn semester, Kuring-gai campus

**92330 Complex Nursing Care: Medical Surgical**
6cp; lecture: 2hpw [blended], laboratory: 2hpw [blended], 80 clinical hours
Requisites: 92322 Medical Surgical Nursing OR 92024 Medical Surgical Nursing [Graduate Entry]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject extends the student’s abilities and skills to practice in more complex medical-surgical contexts. It provides students with an opportunity to extend their ability to undertake increasingly complex nursing activities in a range of care settings. The importance of comprehensive health assessment is particularly emphasised in this subject. Well targeted nursing interventions, appropriately planned nursing care and the application of best evidence to practice is also considered. Particular attention is given to advanced complex wound assessment and care and the assessment and management of the deteriorating patient. At all times during this subject nursing practice is considered within a multidisciplinary framework. Students have the opportunity to reflect on their practice and determine self-identified learning needs appropriate to subject focus.

**Typical availability**
Autumn semester, City campus
Autumn semester, Kuring-gai campus

**92331 Integrated Nursing Concepts**
6cp; laboratories/workshops: 4hpw [blended]
Requisites: 92330 Complex Nursing Care: Medical Surgical AND 92316 Complex Nursing Care: Mental Health
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
This subject contributes to the theoretical exploration of chronic and complex nursing practice. Considering the patient illness experience, students are encouraged to interrogate the range of therapeutic interventions, the impact of clinical guidelines and policies, and professional team member’s contribution to the delivery of chronic and complex care. This exploration extends across the trajectory of care and contexts of care delivery. Evaluation of care including aspects of quality, safety and risk, and patient satisfaction are explored. Students are required to demonstrate synthesis of multiple levels of evidence when formulating nursing practice. Case scenarios congruent with clinical placement experience and coronial evidence are utilised.

**Typical availability**
Spring semester, City campus
Spring semester, Kuring-gai campus

**92332 Introduction to Specialty Practice: Community Health Nursing**
6cp; lectures/tutorials: 4hpw [blended], 80 clinical hours
Requisites: 92014 Role Transition and Professional Identity OR 92014 Role Transition and Professional Identity OR [92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2][i]
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Undergraduate
Community health nursing is a synthesis of nursing practice, within the context of public health and primary health care. Community nursing is founded on a social view of health, and upholds the values of access, equity and self-determination. The nature of community health nursing is comprehensive and directed towards the individual, families and the community at large. Community health nurses empower people to understand and respond effectively to those areas having a negative impact on their health and wellbeing by assisting people with accessing information, resources and services appropriate to their needs. Community health nurses assist people in the local community to maximise their health potential and wellbeing through health assessment, counselling, screening, health promotion/education and community development.
Access conditions are available in the individual subject descriptions in the online handbook.
is to develop complex skill profiles for supporting the needs of a deteriorating older person. Based on strong theoretical foundations, students have the opportunity to participate in a variety of simulation activities.

**Typical availability**
Spring semester, Kuring-gai campus

**92340 Introduction to Specialty Practice: Paediatric Nursing**
6cp; workshops/seminars: 4hpw [blended], 80 clinical hours
Requisites: [92014 Role Transition and Professional Identity OR 92014 Role Transition and Professional Identity OR 92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2]

This subject has been designed to enable students to gain knowledge and clinical nursing practice in an area of interest to them. Through this experience, students have the opportunity to develop their expertise in paediatric nursing and to understand the experience of illness and hospitalisation from the perspective of the child. This clinical experience extends the paediatric knowledge and experience of children’s nursing covered previously, and gives students the opportunity to determine their preference for the speciality of paediatric nursing. It also has the potential to assist them in their quest for future employment.

**Typical availability**
Spring semester, Kuring-gai campus

**92341 Introduction to Specialty Practice: Perioperative Nursing**
6cp; lectures/laboratories: 4hpw [blended], 80 clinical hours
Requisites: [92014 Role Transition and Professional Identity OR 92014 Role Transition and Professional Identity OR 92313 Assessment and Therapeutics in Health Care 1 OR 92314 Assessment and Therapeutics in Health Care 2]

This clinical elective subject is designed to introduce and further student’s knowledge and understanding of the nursing management of adults and/or children undergoing surgery, including those from culturally and linguistically diverse backgrounds. This subject facilitates integration between theory and practice in this specialty area of nursing. It enables students to work within a highly structured and developed area of complex health management as members of high-functioning interdisciplinary perioperative teams. It also provides students with the opportunity to demonstrate technical competence at a beginning level in the application of safe, effective and efficient use of technology and resources in perioperative nursing practice.

**Typical availability**
Spring semester, Kuring-gai campus

**92603 Managing Quality, Risk and Cost in Health Care**
6cp; intensive
Postgraduate

This subject is essential grounding for clinicians, managers and planners of health services who seek to implement systems to manage clinical work processes and to monitor health service performance. The subject material is advanced, designed for clinicians and managers experienced in health care delivery to acquire the knowledge and skills to comprehensively manage the processes of clinical work. The subject prepares students to improve the quality, risk and cost outcomes of care within the context of expectations of clinical and corporate governance, organisational performance and workplace change. The subject examines each of the three components of quality, risk and cost individually, and integrates them within a method of clinical process management as the foundation for a model of organisational accountability for patient, clinical and resource outcomes. The subject takes both a theoretical and practical approach. Students undertake an assessable task relevant to managing clinical processes in their area of work or interest.

**Typical availability**
Spring semester, City campus

**92604 Mental Health Assessment**
6cp; on campus, intensive
Postgraduate

This subject enables students to gain competence and confidence with appropriate assessment, monitoring, intervention and referral processes. The teaching and learning activities focus on the day-to-day realities of working with children, adolescents, adults and their families and assists students to integrate appropriate, age-specific interventions. It also provides students with the opportunity to explore and utilise specific activities and techniques in order to critically evaluate their practice, including structured methods to examine interpersonal communication and the opportunity to further enhance their ability to therapeutically engage with individuals and their families. A variety of consumer perspectives is reviewed in order to inform and assist students to examine their practice, and to implement any necessary modifications to the ways in which they relate to consumers, their families and the community in which they live. Contemporary models of professional development, such as mentorship and clinical supervision, are also explored, and, in conjunction with the above reflective practices, provide students with a set of strategies to critically examine their practice.

**92605 Therapeutic Interventions in Mental Health Care 2**
6cp; on campus, intensive
Postgraduate

This subject provides students with the opportunity to expand their knowledge and ability to utilise a specified range of psychosocial therapeutic interventions in mental health care. These interventions include a comprehensive exploration of family therapy, group therapy, psychotherapy and psycho-education. This subject also provides students with the opportunity to examine and apply the theoretical bases for interdisciplinary mental health care, and the opportunity to explore their own theoretical bases of practice. An holistic examination and analysis of care necessarily embraces the biological, psychological, sociological, cultural and spiritual domains, including consumer participation approaches and collaborations with the family and community. Philosophical and ethical considerations are examined.

**92606 Issues in Australian Health Services**
6cp; on campus, intensive
Postgraduate

This subject is designed as an introduction to the Australian health system. It provides an essential grounding for clinicians, managers and planners working in the health system today about current issues that face them. The subject covers a range of topics that touch on the health status and care needs of the Australian population, inter-governmental relations, stakeholders and their interests and changing patterns of care. On completion of the subject, students have knowledge of the main components of the Australian system, its size, structure and organisation, the major issues facing health service policymakers, planners, managers and clinicians, and options for managing health and health systems for the future.

**92607 Education for Practice Development**
6cp; on campus, intensive
Postgraduate

This subject focuses on the development of educational leadership in specialist nurses and midwives who seek to influence health care practice in their area of expertise and advance clinical excellence in others through the process of education. Through action learning, students are prepared to undertake the roles of change agent, mentor, critical companion and facilitator of learning. Students develop an understanding of education as a strategic building block in the creation of a rich clinical learning environment.

**92608 Advanced Assessment and Diagnosis**
6cp; on campus, intensive
Requisites: 24 credit points of completed study
Postgraduate

This subject builds on students’ developed skills in health and physical assessment aiming to develop diagnostic skills as they relate to advanced assessment. Advanced assessment skills are studied in relation to inductive or inferential reasoning, clinical thinking processes and clinical judgment. Students learn how to prescribe and analyse common diagnostic and laboratory tests, related to their area of practice, as well as the results of health and physical assessment.
A focus is on the development of the skills required to critically analyse patient/client health data in order to diagnose health need and appropriately make referrals to other health practitioners. The subject assumes that students are in concurrent clinical practice.

92609 Pharmacological Therapies in Advanced Practice
6cp; on campus, intensive
Requisite(s): 92713 Health Development AND 18 credit points of completed study in 000001-99999
Postgraduate
Advanced practice nurses commonly administer complex drug protocols within a multidisciplinary team approach, which requires a highly developed knowledge of pharmacology to ensure patient safety. This subject provides students with the knowledge and skills required to manage patients requiring drug and non-drug treatment interventions within the student's specialist practice area, including administering medicines safely to clients. The subject allows students to focus on clinical pharmacological therapies relevant to the student's specialist area of practice and the assessment of patient's/ client's responses to these therapies. Students study the actions of drugs including pharmacodynamics and pharmacokinetics as well as developing an advanced understanding of their application to patients/clients within their chosen specialty.

92610 Law, Ethics and Accountability in Advanced Practice
6cp; on campus, intensive
Requisite(s): 24 credit points of completed study
Postgraduate
This subject aims to provide a strong legal and ethical underpinning for advanced practice. Such an underpinning is critical, not only for the key aspects of patient safety and quality care, but also for the protection of the practitioner and the practitioner's employer. Students build on their existing understanding of the legal parameters for nursing practice to understand the heightened requirements as complexity of care and level of responsibility and accountability increases. Strategies are explored to identify and manage risk in order to ensure safe and accountable practice. Students are encouraged to identify the moral implications of an expanded domain of practice for such things as responsibilities to patients and clients, consequent differences in modes of interacting with patients and clients, interaction with other practitioners for patient care and research purposes, and intra-professional matters such as mentorship, development of practice knowledge, and leadership through advocacy for expanded practice.

92611 Complex Case Management
6cp; on campus, intensive
Requisite(s): 24 credit points of completed study
Postgraduate
This subject aims to bring together the various threads of complex case management. Students use their knowledge of pathophysiological events to frame appropriate clinical responses. From the understanding of normal trajectories of common health conditions, students are able to identify deviations from standard patterns and critically analyse practitioners' management responsibilities. Students develop advanced techniques of health promotion in relation to complex case management and have well developed risk management skills relating to specified clinical situations.

92612 Research in Health
6cp; on campus, intensive
Requisite(s): 24 credit points of completed study AND 92790 Evidence-based Practice
Postgraduate
This subject provides an understanding and appreciation of the multiple ways through which knowledge is generated, specifically in relation to the disciplines of nursing and midwifery, and to health care in general. Students are exposed to the breadth of research methodologies that can be employed for such knowledge generation. Emphasis is placed on relationships between research question/problem, methodology and method. Basic descriptive research methods are used as exemplars of knowledge generation. Completion of the subject enables students to critically appraise an appropriate methodology and method for a chosen area of research inquiry. In addition, the subject explores how to situate an area of inquiry within existing knowledge, proposal writing, as well as ethical and practical issues of conducting research in nursing, midwifery and health care.

92613 Principles of Child and Family Health Nursing
6cp; on campus, intensive
Postgraduate
This subject introduces students to the clinical specialty of child and family health nursing. It describes the scope of practice and displays the level of competent practice to be exhibited in the professional knowledge, skills and behaviours of beginning practitioners. Students' understanding of evidence-based practice is reviewed and applied in child and family health nursing practice. The subject situates primary health care as the philosophical basis of health services for well children and their families, and defines the prominent position of health promotion within the practice of child and family health nursing. As effective communication skills are considered essential for competent practice in child and family health nursing, the subject refreshes and expands prior learning in communication and counselling skills and increases students' capacity to establish supportive therapeutic relationships with client families through a counselling workshop.

92614 Child and Family Health Nursing 1
6cp; on campus, intensive
Postgraduate
The clinical focus of this subject is intended to give students essential skills for practice in working with families with young children from birth to age five. It includes the practical application of the parameters of normal development in early childhood, with a particular focus on attachment theory in infancy and normal variations in child behaviours. It supports the health role of the child and family health nurse in undertaking comprehensive assessments of infants and young children 0–5 years of age and in providing anticipatory guidance to alleviate distress and worry in parents. Nutritional requirements in young children and the initiation and maintenance of breastfeeding are included. The subject increases the students' ability to support and instil confidence in parents caring for a young baby, and to provide opportunities for social support and education. The subject includes a parentcraft workshop. The subject requires the successful completion of a clinical experience program of 80 hours, undertaken as five single 8-hour days, in early childhood health centres and a one-week block in a Tresillian facility.

92615 Child and Family Health Nursing 2
6cp; on campus, intensive
Recommended studies: 92614 Child and Family Health Nursing 1
Postgraduate
This second clinically focused subject extends the essential skills for working with families with young children 0–5 years of age. It includes the identification of common or potential problems amenable to early intervention, and the nursing management to support parents to care for the health and safety of their children. It enables the role of the child and family health nurse in providing home visiting services for families with new babies and particularly families who would benefit from sustained home visiting. The subject assists the nurse to provide social support and education to parents and to foster the integration of the family in the community. It includes a parenting workshop. The subject requires the successful completion of a clinical experience program of 80 hours, taken as a two-week block in child and family health nursing facilities.

92616 Core Concepts in Acute Care Nursing
6cp; on campus, intensive
Postgraduate
This subject focuses on phenomena that are fundamental to acute care (medical/surgical) nursing practice. Concepts, such as pain and wound management, and nutrition that impact on the patient's illness experience are explored. Students also explore models of nursing and their impact on the management of patient care. Teaching approaches draw upon students' clinical experience, with assessment items applied to their specific specialty area.

92617 Early Interventions in Acute Care Nursing
6cp; on campus, intensive
Postgraduate
This subject provides students with an understanding of the principles of managing patients who become acutely ill and unstable in the acute care setting. It builds on the registered nurse's general nursing knowledge and experience, as well as knowledge of pathophysiology, to increase understanding, learning and application of the nursing care
required for patients who suddenly become acutely ill and unstable. The subject focuses on the initial assessment of an unstable patient and the early interventions (including principles of resuscitation) required in managing an acutely ill patient.

92620 Family and Community Health Practice
6cp
This subject investigates the broader perspective of community health and wellness in child and family health nursing. The shared community responsibility of family support is explored together with processes that promote family and community health and wellness. An increased understanding of family function, assessment, and stress factors, especially related to transitional periods, facilitates the student’s ability to interact appropriately with families. The signs of distress and dysfunction in the family that may have an adverse effect on infant mental health are addressed. Students gain an increased appreciation of the significant role the family plays in relation to the mental and physical health and wellbeing of its members and to the health of the whole community.

92621 Aboriginal and Torres Strait Islander: Women and Babies
6cp; 2hpw (lecture)
Requisites: [92272c] Anatomy and Physiology: Pregnancy and Childbirth
Undergraduate
This subject enhances students’ understanding and awareness of the issues related to the health of Indigenous people, particularly Australian Aboriginal and Torres Strait Islander women and babies. Students examine the ways that colonialism has impacted, and continues to impact, on the health of Aboriginal and Torres Strait Islander people through cultural, political and socio-economic circumstances. Primary health care initiatives and community development approaches that have been implemented to address the health of Aboriginal and Torres Strait Islander women and babies in Australia as well as Indigenous people in other countries are also examined.

Typical availability
Spring semester, City campus

92622 Becoming a Midwife
6cp; 11 weeks, 2hpw (lectures)
Undergraduate
This subject introduces students to the Bachelor of Midwifery program by providing an overview of the program and the requirements for registration as a midwife in Australia. As the intention of the Bachelor of Midwifery is to prepare students for practice as a midwife, this subject explores the forces that have shaped, and continue to shape, the practice and image of midwifery. This subject briefly traces the history of midwifery to the present day. The fundamental literacy and cognitive skills that underpin practice judgment and professionalism are developed concurrently with other subject content. In addition, students are introduced to the information technology applications available in the University.

Typical availability
Autumn semester, City campus

92623 Complex Labour, Birth and Puerperium
6cp; 2hpw (lecture)
Requisites: [92626 Midwifery Practice 3: Complex Pregnancy AND 92624 Complex Pregnancy]
Undergraduate
For subject description, contact UTS: Health.

92624 Complex Pregnancy
6cp; 2hpw (lecture)
Requisites: [92272c] Anatomy and Physiology: Pregnancy and Childbirth
Undergraduate
This subject examines the physiological and psychosocial processes that the childbearing woman and her family experience when complexities occur during pregnancy. The subject explores the role of the midwife in the care of the childbearing family to detect deviations from normal circumstances and implement timely and appropriate interventions. How the midwife can support the woman and her family during a complex pregnancy in collaboration with the maternity care team is also explored. In combination with Midwifery Practice 3, this subject assists students to develop the knowledge, skills and attitudes needed to provide safe midwifery care in a variety of clinical scenarios and situations where acute and surgical skills may be required.

Typical availability
Autumn semester, City campus

92625 Emergencies in Maternity Care
6cp; 1hpw (lecture), 2hpw (laboratory), 4 weeks
Requisites: [92627 Midwifery Practice 4: Complex Labour, Birth and Puerperium]
Undergraduate
This final year subject consolidates the student’s knowledge, skills and attitudes in maternity emergency situations in the transition to becoming a midwife. Students apply their knowledge of pathophysiology in maternity and neonatal emergencies in practice using simulated drills. The subject builds student’s capacity to work as part of a team and has an emphasis on effective communications, reflection on practice, handover and documentation in urgent and emergency situations. The overriding framework of clinical risk management is used throughout the subject.

Typical availability
Autumn semester, City campus

92626 Midwifery Practice 3: Complex Pregnancy
6cp; 3hpw (laboratory), 1hpw (tutorial), 96 clinical hrs
Requisites: [92630 Midwifery Practice 2: Supporting Women]
Undergraduate
Students in this subject work in simulated learning environments to learn and develop the requisite midwifery practice skills. Students engage in midwifery practice and are provided with opportunity to reflect on their practice. In the midwifery practice setting, students work with midwives and implement care based on clinical decisions developed in collaboration with others. Students are expected to continue with their continuity of midwifery care experiences. The skills acquired in this subject relate to, and are supported by, the concurrent theoretical subject Complex Pregnancy.

92627 Midwifery Practice 4: Complex Labour, Birth and Puerperium
6cp; 3hpw (laboratory), 1hpw (tutorial), 160 clinical hrs
Requisites: [92626 Midwifery Practice 3: Complex Pregnancy]
Undergraduate
Students in this subject work in simulated learning environments to learn and develop the requisite midwifery practice skills. Students engage in midwifery practice and this subject provides opportunity for them to reflect on their practice. In the midwifery practice setting, students work with midwives and implement care based on clinical decisions developed in collaboration with others. Students are expected to continue with their continuity of midwifery care experiences. The skills acquired in this subject relate to, and are supported by, the concurrent theoretical subject Complex Labour, Birth and Puerperium.

Typical availability
Spring semester, City campus

92628 Midwifery Practice 5: Working with Women
6cp; 2hpw [tutorial]
Requisites: [92627 Midwifery Practice 4: Complex Labour, Birth and Puerperium]
Undergraduate
In this subject students revise the midwifery knowledge, skills and attitudes required to gain competence when working with childbearing women. This subject provides an opportunity for students to reflect on their practice, identifying their own individual learning needs as well as revising and practising frequently used midwifery skills. In the midwifery practice setting, students work with midwives and implement care based on clinical decisions developed in collaboration. Students are expected to continue with their continuity of midwifery care experiences.

Students are able to have an optional rural or international placement as part of this subject.
Access conditions are available in the individual subject descriptions in the online handbook.
92713 Health Breakdown
6cp; intensive mode; clinical studies subject
Postgraduate
This subject focuses on the development of an in-depth understanding of selected pathophysiological concepts and processes, such as: stress response; altered consciousness; impaired immunocompetence and nutrition; disruption of fluid, electrolytes and acid-base balance; altered gas exchange; and disruption of cardiac, renal and respiratory functions. The application of these processes and concepts provides a knowledge base for registered nurses to improve clinical judgments and decision-making in the management of patients with complex changes in health status.

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92721 Health Promotion and Health Education
6cp; intensive mode; 500-level subject; professional studies subject
Requisites: 24 credit points of completed study
Professional studies subject
Postgraduate
The aim of this subject is for students to establish an expanded knowledge base in the theory and processes of health promotion, including health education, which can be applied in a range of health settings. Students extend their understanding so they may participate in the planning process for health promotion programs.

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92760 Fundamentals of Postanaesthesia Recovery Nursing
6cp
This subject aims to expand students' awareness and understanding of the postanaesthesia recovery unit nursing role. It also develops their knowledge of the physiological and psychosocial needs of the surgical patient in the immediate postoperative period, and the legal obligations of the nurse in the postanaesthesia recovery unit.

Typical availability
Spring semester, Kuring-gai campus

92785 Midwifery in Complex Situations
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject prepares students to assess, plan, implement and evaluate midwifery care for women and babies who have complex needs. The legal, ethical and professional responsibilities of the midwife are examined in relation to the provision of care for this group.

Typical availability
Spring semester, City campus

Note(s)
This subject was formerly named Midwifery in Complexity.

92790 Evidence-based Practice
6cp; weekly or intensive mode; research subject
Research subject
Postgraduate
This subject aims to expand students' understanding of, and commitment to, the development of evidence-based nursing and midwifery practice. Students are given the opportunity to develop a broad understanding of quantitative approaches to nursing research without becoming preoccupied with statistical analysis. Having completed the subject, students are able to evaluate research findings and extract their clinical relevance.

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92812 Project
12cp; one-semester subject; equivalent to 2 x 500-level subjects; work with project supervisor
Equivalent to 2 x 500-level subjects
Postgraduate
This project aims at the completion of a supervised but independent development of a topic in an extended piece of written work of 8000-10,000 words (excluding references, appendices and tables). This extended piece of work may take a variety of forms, for example, a long essay, clinical practice guidelines, or development and evaluation of an education program.

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92845 Primary Health Care
6cp; intensive mode
Postgraduate
This subject examines the systems in place to prevent and manage a chronic disease such as diabetes. These include the Chronic Care Model, the Enhanced Primary Care Program, the National Integrated Diabetes Program and Clinical Information Strategies. Throughout this subject primary health care concepts are used as a theoretical backdrop for understanding these programs as well as appreciating the therapeutic relationship between diabetes educators and those for whom they provide care. The common psychological experiences in diabetes and their management are examined from an individual and family perspective. This subject broadens students' orientation to helping people manage and cope with diabetes by emphasising a self-management model of care. Self management is recognised as a way of preventing disease progression, reducing hospital admissions and the costs both direct and indirect of the disease. The barriers to optimal self management are explored and strategies to support self management addressed.

Typical availability
Spring semester, City campus

92847 Planning and Evaluating Health Services
6cp; intensive mode; 500-level subject; professional studies subject
Professional studies subject
Postgraduate
This subject aims to provide students with the necessary knowledge and skills to understand and apply the major concepts involved in health services planning and evaluation.

Typical availability
Spring semester, City campus

92848 Facilitation of Clinical Learning
6cp; intensive
Postgraduate
This subject has been designed for nurse clinicians who have, or will have, responsibility for the successful transition of nursing students and new graduates into the clinical environment. Through the application of adult learning principles, participants become aware of the conditions that encourage and promote effective and efficient clinical learning. In addition, they have the opportunity to design a program of clinical teaching, and are encouraged to evaluate their own development as preceptors and facilitators of clinical learning.

Typical availability
Autumn semester, Kuring-gai campus

92869 Specialty Clinical Practice
6cp
Clinical practice subject
Postgraduate
In this subject students achieve an advanced level of clinical and professional competency in their chosen clinical specialty through a program of integrated and clinically based learning strategies. The subject requires students to expand their clinical and professional knowledge and extend and refine their practice. Learning experiences are directed to the management of patient care, the clinical environment and services, professional responsibilities, leadership and collaboration, problem solving and evaluation, education strategies, inquiry and investigation.
Access conditions are available in the individual subject descriptions in the online handbook.

**Typical availability**
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

**92871 Perinatal Development**
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject aims to assist students in understanding the influence of prematurity and adverse perinatal factors on the adaptation of the neonate to the extraterine environment. Consideration is given to the initial assessment and management of the compromised neonate and the neonate at risk. While this subject critically explores the health team's response to premature and adverse birth outcomes, the nurse's role is highlighted. Throughout this subject the neonate is recognised as an individual and as a family member.

**92873 Midwifery Practice 1**
6cp; intensive mode; clinical practice subject
Clinical practice subject
Postgraduate
This subject provides the theoretical underpinnings to enable students to acquire the requisite knowledge, skills and attitudes for midwifery practice. The primary focus of this subject is on women experiencing a normal childbearing period. Professional practice placements are a compulsory requirement and are assessed within this subject.

**Typical availability**
Autumn semester, City campus

**Note(s)**
This subject was formerly named Midwifery Clinical Practice.

**92876 Therapeutic Interventions in Mental Health Care**
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject has two primary purposes. The first is to expand knowledge and understanding of somatic therapies in mental health care, primarily psychotropic medications. To achieve this, students review findings regarding the biological understandings of mental distress and associated treatments. These approaches are integrated into other social, cultural and psychological understandings about mental distress. The second purpose is to give participants hands-on experience of various interpersonal therapeutic modalities currently practised in mental health settings and of relevance to mental health nurses. This involves individual, group and family approaches. Where possible, participants are encouraged to link with groups engaged in therapies of interest in their clinical settings to enrich their understanding of and competence in these approaches.

**92878 Care of the Child in Illness and Disability**
6cp; intensive mode; clinical studies subject
Postgraduate
This subject extends the student's theoretical knowledge for practice in paediatric nursing. The relationship between scientific and nursing knowledge and informed practice is emphasised. Health breakdown in infants, children and adolescents, related pathophysiology and epidemiology, assessment and diagnostics, and disability are examined. Therapeutic interventions and nursing management for infants, children and adolescents with health breakdown states and disability are also evaluated. Issues related to growth and development, the care of families and the development of paediatric nursing as a specialty are explored.

**92881 Foundations of Perioperative Nursing**
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject aims to expand the students' awareness and understanding of the perioperative nursing role. It also aims to develop the students' foundational knowledge of the impact of the surgical experience on the individual and his or her significant others (e.g. partner, family, friend) and the legal obligations of the nurse in the operating suite environment.

**Typical availability**
Autumn semester, Kuring-gai campus

**92882 Techniques in Perioperative Nursing**
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject aims to further develop students' knowledge of the physiological, psychosocial and surgical needs of the patient (adult and child) undergoing common surgical procedures. Pre-, intra- and postoperative nursing assessment and care are explored in depth, as well as the broader aspects of technological issues associated with the surgical environment. An in-depth knowledge of anatomy is also developed.

**Typical availability**
Spring semester, Kuring-gai campus

**92887 Organisational Management in Health Care**
6cp; intensive mode; professional studies subject
Professional studies subject
Postgraduate
Organisations are a part of everyone's life and world, dominating much of what people are and what they do. Organisational theory focuses on the goals of organisations, and the structures, strategies, processes and cultures within. In this subject, the concepts of organisation and organisational behaviour are considered. Knowledge of organisational behaviour provides a framework for the management of people and processes in an organisation, in this case, health care organisations. One of the increasingly important functions of managers is to understand how to meet objectives, enhance performance and govern the organisation's outcomes. Doing so requires an understanding of how humans behave and how organisations and the managers within them positively or negatively impact upon employees' capacity to accomplish organisational goals, and how performance, knowledge and change are managed in complex organisations.

**Typical availability**
Spring semester, City campus

**92893 Midwifery Practice 2**
6cp; tutorial and laboratory sessions/clinical placement; clinical practice subject
Clinical practice subject
Postgraduate
This subject provides the theoretical underpinnings to enable students to acquire the requisite knowledge, skills and attitudes for midwifery practice. The primary focus of this subject is on women experiencing maternity emergencies that require the midwife to recognise, react and respond appropriately. Professional practice placements are a compulsory requirement and are assessed within this subject.

**Typical availability**
Spring semester, City campus

**Note(s)**
This subject was formerly named Midwifery Practice.

**92894 Advanced Clinical Practice**
6cp; 500-level subject; clinical practice subject
Requisite(s): 24 credit points of completed study AND 92869 Specialty Clinical Practice
Clinical practice subject
Postgraduate
In this subject, students who are experienced nurse clinicians undertake learning experiences in advanced practice which enables them to function as advanced practitioners. The subject requires students to extend their knowledge, skills and performance to the practice levels of an advanced practitioner. Learning experiences are based in the practice setting and require students to demonstrate clinical, management and professional expertise.

**Typical availability**
Spring semester, Kuring-gai campus

**92897 Perinatal Development**
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject aims to further develop students' knowledge of the physiological, psychosocial and surgical needs of the patient (adult and child) undergoing common surgical procedures. Pre-, intra- and postoperative nursing assessment and care are explored in depth, as well as the broader aspects of technological issues associated with the surgical environment. An in-depth knowledge of anatomy is also developed.
92895 Issues in Neonatal Care
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject enables students to advance their knowledge of neonatal health dysfunction and its management through critical evaluation of practice. The pathophysiology of disease processes common to the neonatal period is utilised in conjunction with behavioural assessment as rationales for nursing intervention. Consideration is given to the long-term health consequences associated with health dysfunction during the neonatal period. The impact of neonatal health dysfunction on the family and society is explored and the nurse specialist’s role in neonatal nursing emphasises leadership and innovative practice.

92919 Complex Critical Care
6cp; intensive mode; clinical studies subject
Clinical studies subject
Postgraduate
This subject develops the knowledge and understanding of critical care nursing practice in relation to the management of critically ill patients with complex, interdependent disorders requiring emergency and critical care interventions. The issues of loss and grief for patients, their families and critical care staff are explored.

Typical availability
Spring semester, Kuring-gai campus

92920 Neuroscience: Trauma and Cerebrovascular
6cp; block; clinical studies subject
Clinical studies subject
Postgraduate
This subject focuses on the principles of neuroscience nursing practice. The focus of study is persons who have had an injury to the nervous system and alterations to cerebrovascular flow. The subject content is explored using clinical case studies and a framework that reflects a holistic model of care.

Typical availability
Autumn semester, Kuring-gai campus

92921 Neuroscience: Degenerative and Oncological
6cp; intensive; clinical studies subject
Clinical studies subject
Postgraduate
This subject is designed to enhance the clinical knowledge base and clinical decision-making skills of nurses working with persons with neurological and neurosurgical conditions. The subject focuses on the effects of malignant and non-malignant tumours, degenerative disorders, and disturbances to electrical conduction, infections and acute and chronic pain states.

Typical availability
Spring semester, Kuring-gai campus

92922 The Meaning of Birth
6cp, 3 days x 8 hours [face-to-face] + 6 hours [on-line]
Undergraduate and Postgraduate
This subject exposes students to sociopolitical discourses that inform the experience of childbirth for women and their families, and the role of the midwife in that experience. Examining popular culture helps to stimulate students to consider and debate relevant psychosocial and political issues. Students engage in an ongoing process of questioning their own attitudes, values and feelings. Elements of research, self-reflection (as a student and as a future midwife) and woman-centred approaches assist students to prepare for what it means to be a midwife. In order to have a fuller understanding of the meaning of birth, theories of grief and loss are also explored.

Typical availability
Autumn semester, City campus (GradDipMid students)
Spring semester, City campus (BMid students)

92923 Continuity of Midwifery Care
6cp; intensive; clinical studies subject
Clinical studies subject
Postgraduate
This subject enables students to explore ways in which midwives can respond to the identified needs of women as the primary focus of the midwives’ relationship, and through them identify the needs of their families and significant others. Collaboration and interdisciplinary issues are explored within the context of the woman’s life and the socio-political dimensions of families.

Typical availability
Summer session, City campus
92925 Models of Midwifery Care  
6cp; mixed (lectures, seminars, group work, class presentations, inquiry-based learning, assignments); 500-level subject; 500 level; Postgraduate  
This subject enables midwives to critically evaluate the benefits, obstacles and developmental strategies associated with innovative maternity service provision in Australia and internationally, in both public and private health systems. A particular focus of inquiry is the multiple ways midwives work in partnership with women. This includes accessing and critiquing contemporary research findings that inform practice development, ethical decision-making, interdisciplinary collaboration and the implementation of cost-effective changes in maternity service provision. Students identify the personal and professional support and the practice development necessary to engender confidence in all those working to provide new models of maternity care. A framework that addresses the philosophical foundation of midwifery and the construction of midwifery knowledge underpins this subject.

Typical availability  
Autumn semester, Kuring-gai campus

92926 Information Management Application  
6cp; intensive; 500-level subject; professional studies subject; Requisite(s): 92917 Using Health Care Data for Decision Making; Professional studies subject; Postgraduate  
Building on the prerequisite subject 92917 Using Health Care Data for Decision Making, this subject offers health professionals an opportunity to use their developing data analysis skill on a 'real life' problem of interest. Students complete a project in association with a health care delivery setting, using administrative data, supervised by faculty, staff and other health professionals. The process of completing the project offers an invaluable experience of interdisciplinary collaboration.

92927 Evidence-based Practice (Midwifery)  
6cp; intensive mode; research subject; Research subject; Postgraduate  
This subject provides students with the knowledge, skills and attitudes to be able to effectively use evidence to inform midwifery practice as well as be research aware within the clinical practice environment. Students gain a broad understanding of quantitative and qualitative approaches to research. The ability to critique the evidence assists students formulate evidence-based guidelines. A focus on using woman-centred language helps students develop the skills needed to be able to discuss research findings with women in practice.

Typical availability  
Autumn semester, City campus (postgraduate students); Spring semester, City campus (undergraduate students)

92932 Management for Clinicians  
6cp; intensive; professional studies subject; Professional studies subject; Postgraduate  
This is an introductory subject for clinicians who are expected to manage a ward or unit. It introduces the concept of management theory and practice in health care settings. No experience in or prior knowledge of management is required.

Typical availability  
Autumn semester, City campus

92934 Clinical Management of Diabetes  
6cp; intensive; Postgraduate  
This subject expands on foundation clinical knowledge and develops in-depth knowledge specific to the aetiology and pathophysiology of diabetes including prevention, risk factor screening and management strategies. The impact of diabetes on specific population subgroups and their particular interdisciplinary management needs are also examined along with acute and chronic diabetes complications. This subject also provides an overview of the impact of diabetes and jurisdictional, national and international responses to the diabetes epidemic.

Typical availability  
Autumn semester, City campus

92938 Midwifery Practice Development  
6cp; distance plus two days workshop attendance; 500-level subject; midwifery subject; Midwifery subject; Postgraduate  
Development of midwifery practice at both national and international levels is being challenged through changes in health care policies, research findings related to childbearing and caring, and the economic imperatives that drive health care services. This subject examines these factors and a range of midwives' possible responses. The use of evidence in the development of best practice forms a significant component of this subject.

Typical availability  
Autumn semester, City campus

92944 Project Part A  
6cp; one-semester subject; 500-level subject; Postgraduate  
In this subject students are supervised but independently develop a topic in an extended piece of written work. This extended piece of work is generally:
- a critical review of literature in relation to a defined topic, or
- a data analysis/project, or
- an extension of a work-based project.

The project may be taken as a 6-credit-point subject (i.e. this subject only) or as a 12-credit-point subject in association with 92947 Project Part B, with varying expectations in terms of the grounding in the literature, complexity of topic choice and the word length of the paper.

Typical availability  
Autumn semester, Kuring-gai campus

92947 Project Part B  
6cp; one-semester subject; 500-level subject; Postgraduate  
The project is a supervised but independent development of a topic in an extended piece of written work. This extended piece of work is generally:
- a critical review of literature in relation to a defined topic, or
- a data analysis/project, or
- an extension of a work-based project.

The project may be taken as a 6- or 12-credit-point subject with varying expectations in terms of the grounding in the literature, complexity of topic chosen, and the word length of the paper. When choosing a topic, its suitability relative to these varying expectations should be discussed with the supervisor.

Typical availability  
Spring semester, Kuring-gai campus

92972 Health Care Research Methodology  
6cp; intensive, mixed; 500-level subject; research subject; Research subject; Postgraduate  
This subject provides an understanding and appreciation of the multiple ways through which knowledge is generated in specific relationship to the disciplines of nursing and midwifery, and health care in general. Students are exposed to the breadth of research methodologies that can be employed for such knowledge generation. Emphasis is placed on relationships between research question/problem, methodology and method. Basic descriptive research methods are used as exemplars of knowledge generation. Completion of the subject enables students to critically appraise an appropriate methodology and method for their chosen area of research inquiry. In addition, the subject explores how to situate an area of inquiry within existing knowledge, proposal writing, as well as ethical and practical issues of conducting research in nursing, midwifery and health care.

Typical availability  
Autumn semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
92973 Developing Health Care Theory
6cp; intensive, mixed; 500-level subject; research subject
Research subject
Postgraduate
This subject focuses on understanding nursing, midwifery and health care phenomena through methodological approaches such as grounded theory and phenomenology. Descriptive and comparative studies examining relationships among variables and predictive modelling are used as exemplars of research approvals for theory development. Design issues, such as identifying and recruiting participants, theoretical sampling, and data collection including survey design, data analysis and interpretation are addressed. Concepts such as validity, reflexivity, trustworthiness of data and applicability are examined in relation to the methodological approaches explored throughout the subject.

Typical availability
Spring semester, City campus

92974 Investigating Health Care Change
6cp; intensive, mixed; 500-level subject; research subject
Research subject
Postgraduate
This subject situates research within the processes of examining practice change in nursing, midwifery and health care. Methodological processes, such as descriptive and experimental design, and action research are used as exemplars of investigating practice change. Practical issues of production of evidence, use of clinically meaningful outcomes, and development of strategies to overcome barriers to practice change are explored. Research challenges, including appropriate selection of design, research participants, sample size, data collection, including selection of appropriate measures, data analysis and interpretation of results are studied. Concepts such as validity, reliability, and rigour are examined in relation to the methodological approaches explored throughout the subject.

Typical availability
Spring semester, City campus

92975 Master of Nursing (Honours) Thesis
0cp
For details on this subject contact the faculty research administrator:
Julie Funnell
telephone +61 2 9514 4879
email Julie.Funnell@uts.edu.au

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92976 Master of Midwifery (Honours) Thesis
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92977 Master of Health Services (Honours) Thesis
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92979 Health Services Dissertation
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

92980 D Midwifery Dissertation
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92981 D Nursing Dissertation
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92983 Specialty Practice
6cp
Clinical practice subject
Postgraduate
In this subject students achieve an advanced level of clinical and professional competency in their chosen clinical specialty through a program of integrated and clinically based learning strategies. The subject requires students to expand their clinical and professional knowledge and extend and refine their practice. Learning experiences are directed to the management of patient care, the clinical environment and services, professional responsibilities, leadership and collaboration, problem solving and evaluation, education strategies, inquiry and investigation.

Typical availability
Autumn semester, Kuring-gai campus
Spring semester, Kuring-gai campus

92984 PhD Thesis: Nursing
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

93000 PhD Thesis: Midwifery
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

93001 PhD Thesis: Health
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
eemail NMHResearch.StudentsAdmin@uts.edu.au

93002 Knowledge Utilisation and Policy in Health Services and Practice
6cp
This subject focuses on the concept of knowledge utilisation and the relationship between evidence-based decision-making and the health service context from the individual-clinical to a population-policy level. This includes exploring a range of knowledge utilisation/practice development models; guideline development, policy development, and practice development.
Typical availability
Autumn semester, City campus

93003 Research Inquiry: Processes and Practices
6cp
This subject builds on existing knowledge by further developing research awareness, knowledge and skills. The subject examines the philosophical foundations of research inquiry; assists students to further develop a range of abilities required to emerge as a beginning independent researcher and lifelong learner.

Typical availability
Autumn semester, City campus
Autumn semester, Kuring-gai campus

93004 Research Design and Analysis in Health Services and Practice
6cp
This subject deepens and extends students' knowledge of a range of research designs/methods and methodological or theoretical frameworks to explore a range of health services issues. This enables the development of appropriate strategies for researching/analyzing their own practice and practice context. Several experts in the field present seminars on innovative and collaborative research in health services and practice.

Typical availability
Spring semester, City campus

93005 Leading Change in Health Services and Practice
6cp
This subject examines the development of health services through an exploration of innovative and collaborative research into leadership, policy and international practice. A series of presentations by (or interviews with) visiting fellows from a range of disciplines, health settings and locations throughout Australia and internationally are established to showcase research excellence in leading change in health services and practices.

Typical availability
Spring semester, City campus

93006 Clinical Practice (Diabetes)
6cp; intensive
Requisite(s): 92934 Clinical Management of Diabetes AND 015356 Learning in Diabetes Education
Postgraduate
This subject allows students to complete 40 hours of clinical observation in an approved centre to meet specific objectives which focus on ADEA core competencies.

Typical availability
Autumn semester, City campus

93007 PhD Thesis: Sport and Exercise
0cp
For subject details, contact the research administration officer:
telephone +61 2 9514 4834
email NMHResearch.StudentsAdmin@uts.edu.au

95563 Digital Media Development Process
6cp; 2hpw, face-to-face | students should spend an average of 9–12hpw, including class time | availability: postgraduate degree students
Postgraduate
This subject examines the nature of the interactive multimedia development process. It explores multimedia development teams, roles and methods in a group work setting. Students work with a real-world client to redesign their web presence and develop detailed proposals and specifications. This is an ‘action learning’ subject where students learn by doing. It has an intensive workload.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95564 Digital Media Technologies
6cp; availability: postgraduate degree students
Postgraduate
This subject provides an overview of some of the software and hardware technologies utilised in the development and maintenance of moderately complex websites exhibiting sophisticated interactivity and requiring a systematic approach to management.
It provides an opportunity for students to demonstrate an understanding of the skills and issues relevant to the creation and management of websites of moderate complexity. These skills may include HTML authoring, CSS design, browser scripting with JavaScript, interaction with back-end database environments using scripting engines such as PHP, database management systems such as MySQL, and other skills as appropriate.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95565 Digital Graphics and the Still Image
6cp; availability: postgraduate degree students
Postgraduate
This subject introduces students to the production of screen-based graphics in the context of the online environment. It also focuses on developing analytic skills in visual literacy and visual grammar. Students are expected to produce projects for assessment demonstrating a high level of critical visual awareness. The subject aims to develop an appreciation of basic graphic design, typographic principles and audience awareness, especially in relation to social, cultural and ethical issues.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95566 Digital Information and Interaction Design
6cp; availability: postgraduate degree students
Postgraduate
This subject introduces students to the information and interaction design element of the multimedia production process. It encourages students to critically engage with interdisciplinary approaches to information and interaction design in a context of peer support and feedback, in order to forge their own unique personal theory. This theory is then applied to a real-world design project in which students work with a client, with advice and input from industry professionals.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95567 Digital Media in Social Context
6cp; availability: postgraduate degree students
Postgraduate
This subject uses the interdisciplinary approach of media studies to explore the debates around the role of the media in society, and the changes that digital media are reflecting and contributing to that role. It takes some of the common terms associated with the new media, such as information revolution, global village, collapse of time and space, globalisation, constant change and new forms of democracy, and analyses their usage in an historical context to facilitate an informed and critical view of the issues.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95568 Digital Sound and the Moving Image
6cp; availability: postgraduate degree students
Postgraduate
This subject introduces students to the uses of sound, moving image and interactivity in multimedia. Using practical and theoretical approaches, students are expected to examine the role of sound and the moving image in interactive media and refine the ability to make informed choices about using animation, audio and visual techniques in interactive contexts. The program used and supported in this class is Adobe Flash. Students gain basic skills in creating and
applying sound and moving image for online products, together with programming skills in Flash’s programming language Actionscript to increase interactivity.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95569 Digital Media Project
12cp; availability: postgraduate degree students
Requisites: 48 credit points of completed study in C04158 Master of Interactive Multimedia
Postgraduate
This is a capstone project subject where students consolidate their knowledge, skills and experience acquired in their studies. This is realised in the planning, development and production of a digital media product in a collaborative learning environment of a multimedia production team. Students are encouraged to critically innovate and experiment in their development process in the context of addressing a particular need as well as making an original contribution to the field of multimedia. The subject also provides students with the opportunity to explore possibilities for future development of their digital media product and careers in the multimedia industry.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95570 Knowledge Transfer and Research Commercialisation
6cp; availability: not offered to exchange and study abroad students
Postgraduate
The commercialisation of research take place in a complex legal, commercial and scientific/cultural environment. In this subject students learn to understand their role, capacity and potential as an agent for such commercialisation. The subject provides students with practical information and builds skills and capacities within the identification of commercialisation opportunities and the implementation of commercialisation processes appropriate to the students research.

95571 Research Project Management
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject allows students to assess, plan and manage a chosen research project as a basis for learning about project management life-cycles and generic project management processes including initiating, planning, executing, controlling and evaluating the project. The subject introduces techniques for managing the project’s stakeholders as well as those regarding its scope, time cost, quality, communication, procurement and risk.

95572 Entrepreneurial Foundations
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject assists students to develop and systematically apply an entrepreneurial way of thinking that allows them to create and/or identify opportunities that may be commercialised successfully. Entrepreneurship is the process of seizing or creating opportunity without regard to the resources you own. It is the process of building something from nothing; risk is involved.

95573 Leadership and Workplace Communication
6cp; availability: not offered to exchange and study abroad students
Postgraduate
Workplace communication, team and leadership skills are essential to the multi-dimensional methods of research management and research commercialisation. This subject introduces students to various schools of thought surrounding leadership by examining the practical implications of these within a research environment. It also develops students own leadership and related communication skills through interactive and collaborative practical learning experiences.

95575 Public Policy in Research
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject offers an introduction to the world of public policy designed to specifically raise awareness about the relationship between research and public policy. A number of themes and issues on the relationship between research and public policy are introduced enabling a better understanding of public policy. The subject enables students to develop and deepen their understanding of the processes of policy analysis, development and implementation, and contributes towards them becoming more effective policy actors.

95582 PhD Thesis: Sustainable Futures
0cp
Students enrol in this subject as the thesis component of the Doctor of Philosophy in Sustainable Futures (C02637) (see page 478). Further information is available from the Institute for Sustainable Futures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95583 Master of Sustainable Futures Thesis
0cp
Students enrol in this subject as the thesis component of the Master of Sustainable Futures (C03032) (see page 491). For further details contact the Institute for Sustainable Futures.

95584 Contexts for Research Management
6cp; availability: not offered to exchange and study abroad students
Postgraduate
The practice of research management is shaped, to a large extent, by the policy and structural contexts within which institutions, and researchers function. Thus, research managers operating at the higher levels of the profession require advanced understandings of discourses of globalisation, such as ‘the knowledge economy’; those of national interest such as ‘the national innovation system’; and conceptual debates in connection with quality, impact, scientific merit, ‘public good’ and triple bottom line thinking as determinants of the value proposition for research activity in both the public and the private sectors.

The subject aims to introduce the student to a number of concepts and analytical approaches necessary for the development and critical appraisal of your understanding of the environments within which research management practices take place, and for the development of practical responses to maximise the efficiency and effectiveness of research management in those environments.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95585 Managing Research Careers
6cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject aims to provide the students with an understanding of the patterns of research career development, and of the principles and mechanisms of career self-management. It aims to assist the student to develop the analytical approaches to professional development needs of researchers, and the personal skills of effective presentation to employers at various levels in the research and research management fields.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95586 Strategic Issues in Research Management
6cp
Postgraduate
Research management is an increasingly specialised and complex professional field involving both values-based strategic decision-making and a plethora of interrelated compliance, governance and administrative functions. Research management takes place in both public and private sector contexts, and facilitates delivery of the economic, social and cultural benefits expected of research.
This subject, the second of two focused on research management issues, deals with a number of the key strategic concerns which are part of a senior research manager's activity. The subject aims to provide a foundation of understandings and skills for the exercise of senior research management roles including a focus throughout on quality assurance and risk management.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95587 Principles and Practice of Research Management
6cp; availability: not offered to exchange and study abroad students
Postgraduate
Research management is an increasingly specialised and complex professional field involving both values-based strategic decision-making and a plethora of interrelated compliance, governance and administrative functions. Research management takes place in both public and private sector contexts, and facilitates delivery of the economic, social and cultural benefits expected of research. This subject, the first of two, deals with a number of the key foundational principles and practices which are part of a research manager's activity.

The subject aims to improve an understanding of the range of frameworks and issues involved in the field of research management. In exploring these frameworks and issues, the subject acknowledges the human factors in research organisations and examines the data management systems and other technologies which underpin the operation of a typical research services unit.

Typical availability
Autumn semester, City campus
Spring semester, City campus

95588 Research and Global Sustainability
6cp; availability: not offered to exchange and study abroad students
Postgraduate
Global sustainability will be the driving force changing the way we work and live in the 21st century; a primary focus in our intellectual and material work, as well as in our collective and individual lives. Demands for greater accountability and transparency are increasing for government, corporations and civil society, particularly in the context of the knowledge economy, with significant ramifications for the accepted norms of R&D, including scientific merit, technological advancement and research integrity. Globalisation, revolutions in communication and information, increased environmental and social awareness are pressing leaders, citizens and communities alike to view the future in very different ways.

This subject deals with a number of key principles and practices relating to global sustainability, which are part of an R&D manager's activity and operating context. Global sustainability will be viewed as a case study of an emergent field in R&D, against the background of R&D's historical and ongoing responsibility for many of the phenomena requiring amelioration under the global sustainability agenda.

95589 PhD Thesis: Pharmacy
0cp
Requisite(s): C02056 Doctor of Philosophy
For subject description, contact UTS: Pharmacy.

95590 Master of Pharmacy Thesis
0cp
For subject description, contact the Graduate School of Health.

95591 Master of Pharmaceutical Sciences Thesis
0cp
For subject description, contact the Graduate School of Health.

95723 Research Dissertation 1 (Sustainable Futures)
24cp
For subject description, contact UTS: Institute for Sustainable Futures.

95724 Research Dissertation 2 (Sustainable Futures)
24cp
Requisite(s): 95723 Research Dissertation 1 [Sustainable Futures]
There are also course requisites for this subject. See access conditions.

For subject description, contact UTS: Institute for Sustainable Futures.

96001 Introduction to Pharmacy
6cp
In this subject students are introduced to the profession of pharmacy and the role of the pharmacist in health care. The regulatory environment in which pharmacists work, as well as ethical and professional standards are addressed. An overview of the Australian health care system is provided, including the laws and policies governing the supply and use of medicines, in particular the National Strategy for Quality Use of Medicines. A number of core themes are introduced in this subject that are reinforced and expanded in subsequent subjects: health and illness, health literacy and health promotion.

96002 Concepts in Pharmaceutical Sciences
6cp
This subject covers the fundamental principles in pharmaceutical science and is an essential prerequisite of applied therapeutics and clinical practice. The first half of the subject provides an overview of drug discovery and development. The sources of medicinal products from plants and other galenicals, drug action at target macromolecules (including receptors, enzymes and nucleic acids) and approaches in the evaluation of drug response and drug stability are covered. The significance of functional groups to pharmacological activity, disposition and delivery are also discussed. The second half focuses on approaches used in drug discovery and development. Topics include rational drug design and functional biology. Analytical methods used in the analysis of parent molecules, metabolites and degradation products are also studied.

96003 Pharmaceutics
6cp
This unit of study establishes the principle concepts of pharmaceutics required for drug formulation, therapeutics and practice. The relationship between physiological, physiochemical and biopharmaceutical properties of drugs; dosage form design and delivery; and drug disposition and therapeutic response are established. Topics covered include: pharmaceutical, formulation, biopharmaceutical and pharmacokinetic considerations in dosage form design; the physiochemical basis governing drug solubility; solid dosage forms, liquid dosage forms, topical dose forms and semisolids; pharmaceutical inserts; sterile dosage forms including parenterals and biologics; and inhalation pharmaceuticals. Current good manufacturing and laboratory practices, packaging and labelling, and the influence of manufacture and distribution on product quality are also covered. Other topics covered include microbiological contamination and sterilisation procedures.

96004 Professional Services 1
6cp
For subject description, contact the Graduate School of Health.

96005 Professional Services 2
6cp; 6hpw, on campus; availability: students enrolled in the Master of Pharmacy course only
Requisite(s): 96004c Professional Services 1 AND 96005c Integrated Therapeutics 1 AND 96007c Drug Disposition AND 96008c Evidence Based Practice
There are also course requisites for this subject. See access conditions.
Postgraduate
Quality and rational use of medicines are one of the major objectives of clinical practice. It is evident that patients need to be compliant with their medications to ensure optimal use and clinical outcomes. At the same time poly-pharmacy may result in drug related problems which could lead to negative clinical outcomes. This subject examines the process of defining, planning, implementing and evaluating a compliance service. It reviews the major causes of non-adherence and strategies to assist adherence. The communication and behavioural aspects of patient-pharmacist interactions are also covered. The aims of a clinical intervention service are to identify, document and resolve drug-related problems. The various processes which lead to a drug-
related problem are examined, including the communication and behavioural aspects of doctor-pharmacist interactions. The process considers account matters such as the technology used, legislation, compliance, ethics, pharmaceutical science, patient safety, clinical aspects and competency standards.

**Typical availability**
Spring semester, City campus

**96006 Integrated Therapeutics 1**
6cp; 6hpw, on campus
Requisite(s): 96005c Professional Services 2 AND 96007c Drug Disposition AND 96008c Evidence Based Practice AND 96001c Introduction to Pharmacy AND 96002 Concepts in Pharmaceutical Sciences AND 96003 Pharmaceutics AND 96004 Professional Services 1 AND 96015 Clinical Practice 1
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject focuses on the optimal use of pharmacotherapy and integrates concepts in medicinal chemistry and pharmaceutics in the clinical management of disease. The core topics covered are cardiology, respirology, gastroenterology, pain and infectious disease. The epidemiology, pathophysiology and diagnosis of disease in these therapeutic areas are reviewed together with relevant treatment and disease management options.

**Typical availability**
Spring semester, City campus

**96007 Drug Disposition**
6cp; 6hpw, on campus; availability: students enrolled in the Master of Pharmacy course only
Requisite(s): 96002c Concepts in Pharmaceutical Sciences AND 96003 Pharmaceutics AND 96005c Professional Services 2 AND 96006c Integrated Therapeutics 1 AND 96008c Evidence Based Practice
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject covers the principle topics in pharmacokinetics, pharmacogenetics and pharmacodynamics required for applied therapeutics and practice. Core topics include: monoexponential kinetics; multieponential kinetics; intravenous infusions; multiple dosing and dosage regimen design; non-linear kinetics; drug absorption; bioequivalence; drug distribution; drug metabolism; drug elimination; metabolite kinetics; pharmacodynamics; and toxicology. Advanced topics cover factors affecting drug efficacy including drug interactions and sources of variability (including the role of pharmacogenetics) in therapeutic outcomes. Applied topics include therapeutic drug monitoring and drug individualisation, and adverse drug reactions.

**Typical availability**
Spring semester, City campus

**96008 Evidence Based Practice**
6cp; 6hpw, on campus
Requisite(s): 96001c Introduction to Pharmacy AND 96005c Professional Services 2 AND 96006c Integrated Therapeutics 1 AND 96007c Drug Disposition
There are also course requisites for this subject. See access conditions.
Postgraduate
This subject focuses on the development of information retrieval, critical thinking and problem-solving skills. Students are introduced to the areas of evidence-based practice, pharmacoepidemiology and drug information, and their relevance to current pharmacy practice. Using current pharmacy practice examples, students develop skills in finding drug information, performing literature searches, critically evaluating the literature and applying evidence-based practice principles to ensure quality use of medicines.

**Typical availability**
City campus, Spring semester

**96009 Professional Services 3**
6cp
Requisite(s): 96005 Professional Services 2
There are also course requisites for this subject. See access conditions.
For subject description, contact the Graduate School of Health.

**96101 Integrated Therapeutics 2**
6cp
Requisite(s): 96006 Integrated Therapeutics 1
There are also course requisites for this subject. See access conditions.
This subject focuses on the optimal use of pharmacotherapy (i.e. medicines) in the clinical management of core health conditions. Using an integrated approach, the epidemiology, pathophysiology, diagnosis, and clinical presentation of illness and disease are reviewed alongside relevant treatment and disease management options, highlighting the medicinal chemistry, pharmacology, formulation, administration and clinical properties of targeted therapies. The burden of disease and use of pharmacotherapy in special populations (e.g. paediatric, geriatric, Indigenous) are highlighted. In line with national health priority areas (AIHW), major health issues in Australia (NHMRC) and the global burden of disease and injuries (WHO), this subject focuses on cancer control, pain management (e.g. arthritis and musculoskeletal conditions), neurological disease (e.g. epilepsy), mental health (e.g. depression) and gastrointestinal health (e.g. gastric ulcer disease).

**96101 Primary Health Care**
6cp
Requisite(s): 96006 Integrated Therapeutics 1
There are also course requisites for this subject. See access conditions.
Pharmacists are said to be the first point of contact with consumers for their healthcare and wellness needs. The results of these consultations could be referral to medical practitioners and other care providers, the supply of non-prescription medications or advice. This subject provides students with the knowledge and skills to make appropriate clinical decisions to assist the consumer to self-manage or to seek relevant health advice. Disease, symptom, non-prescription medication, screening and treatment are covered. Prevention, health promotion and wellness theory and practice are reviewed and applied to the role of pharmacy. The areas of anti-smoking, weight management and lifestyle changes are used as examples.

**96102 Professional Services 4**
6cp
Requisite(s): 96009c Professional Services 3
There are also course requisites for this subject. See access conditions.
For subject description, contact the Graduate School of Health.

**96103 Integrated Therapeutics 3**
6cp
Requisite(s): 96010c Integrated Therapeutics 2
There are also course requisites for this subject. See access conditions.
This subject focuses on the optimal use of pharmacotherapy (i.e. medicines) in the clinical management of core health conditions. Using an integrated approach, the epidemiology, pathophysiology, diagnosis, and clinical presentation of illness and disease are reviewed alongside relevant treatment and disease management options, highlighting the medicinal chemistry, pharmacology, formulation, administration and clinical properties of targeted therapies. The burden of disease and use of pharmacotherapy in special populations (e.g. paediatric, geriatric, Indigenous) are highlighted. In line with national health priority areas (AIHW), major health issues in Australia (NHMRC), and the global burden of disease and injuries (WHO), this subject focuses on infectious diseases, oncology and haematology (e.g. cancer); and dermatological diseases (including ocular and aural health).
96014 Molecule to Market
6cp
Requisite(s): 96002 Concepts in Pharmaceutical Sciences
There are also course requisites for this subject. See access conditions.

This subject covers the drug development process from laboratory to patients - a high risk and high cost process. One in 10,000 compounds have pre-clinical studies conducted that can take upwards of two years. Of these 250 compounds, only five make it to clinical trials, which can take six years. This includes phase 1 to phase 3 clinical studies and what is involved in conducting these studies. The successful compound has the necessary chemistry, pre-clinical and clinical data for a regulatory dossier to be compiled and submitted to the Therapeutic Goods Administration (TGA) in Australia. The TGA is responsible for evaluating the efficacy, safety and quality of the compound. Access to medicines for patients involves product registration via the TGA and pricing reimbursement via the Pharmaceutical Benefits Division (PBD). This subject also outlines what is involved in successfully registering a medicine and listing it with the Pharmaceutical Benefits Scheme (PBS).

96015 Clinical Practice 1
6cp
This subject practically applies the theory learned and the skills developed through coursework to the real-life practice environment. Students spend dedicated periods of time in a supervised practice setting, utilising their knowledge and skills to optimise the use of pharmacotherapy in the: management and care of patients; delivery of health services and interventions (e.g. health promotion activities); and/or quality use of medicines projects. Students maintain a clinical portfolio to demonstrate their professional development according to PSA National Competency Standards Framework for Pharmacists in Australia and SHPA Standards of Practice. This subject focuses on experiential learning in the community practice environment through weekly half-day placements as well as block placements.

96016 Clinical Practice 2
12cp; 4hpw, off-campus, (weekly placement); 35hpw, online, (virtual placement: two weeks); 35hpw, off-campus, (block placement: four weeks)
Requisite(s): 96015c Clinical Practice 1
There are also course requisites for this subject. See access conditions.

Postgraduate
This subject practically applies the theory learned and the skills developed through coursework to the real-life practice environment. Students spend dedicated periods of time in a supervised practice setting, utilising their knowledge and skills to optimise the use of pharmacotherapy in the: management and care of patients; delivery of health services and interventions (e.g. health promotion activities); and/or quality use of medicines projects. Students maintain a clinical portfolio to demonstrate their professional development according to PSA National Competency Standards Framework for Pharmacists in Australia and SHPA Standards of Practice. This subject focuses on experiential learning via block placements in community, hospital and alternative practice settings (e.g. pharmaceutical industry, rural settings, compounding sites, specialist clinics and professional organisations).

Typical availability
City campus, Spring semester
City campus, Summer session

96017 Clinical Practice 3
6cp
Requisite(s): 96016 Clinical Practice 2
There are also course requisites for this subject. See access conditions.

This subject practically applies the theory learned and the skills developed through coursework to the real-life practice environment. Students spend dedicated periods of time in a supervised practice setting, utilising their knowledge and skills to optimise the use of pharmacotherapy in the: management and care of patients; delivery of health services and interventions (e.g. health promotion activities); and/or quality use of medicines projects. Students maintain a clinical portfolio to demonstrate their professional development according to PSA National Competency Standards Framework for Pharmacists in Australia and SHPA Standards of Practice. This subject focuses on advanced experiential learning via elective block placements in various practice settings (community pharmacy, hospital pharmacy, pharmaceutical industry; rural settings, compounding sites, specialist clinics and professional organisations). Students may undertake specific projects to explore and/or facilitate the use of medicines, including health promotion activities, clinical audits, evaluation of interventions, development of resources and activities to support special populations (e.g. Indigenous health, aged care).

96018 International Placement 1
12cp
For subject description, contact UTS: Pharmacy.

96019 International Placement 2
12cp
For subject description, contact UTS: Pharmacy.

96723 Research Dissertation 1 (GSH)
24cp
Requisite(s): 96723 Research Dissertation 1 (GSH)
There are also course requisites for this subject. See access conditions.

For subject description, contact UTS: Pharmacy.

97101 Chinese Language and Culture 1
8cp; 4hpw; availability: exchange and study abroad students with faculty approval

This subject is designed for students with no previous knowledge of Chinese. It enables students to meet their communication needs in everyday social interaction in China and other Chinese-speaking communities, not only by developing basic skills in listening, speaking, reading and writing, but also by developing an understanding of Chinese culture. By the end of this subject students are able to interact with native speakers in a simple and culturally appropriate way by making statements and asking and answering questions on very familiar topics. They understand common words and basic phrases concerning themselves, their families and their immediate surroundings, when people speak slowly and clearly. Pinyin, the official transcription system, is used as a guide to the pronunciation of the Chinese language, and students learn to recognise approximately 300 characters and read familiar names, words and very simple sentences. Students are able to write short, simple notes, messages or postcards, fill in forms with personal details and understand and appreciate aspects of Chinese culture.

Typical availability
Autumn semester, City campus

97102 Chinese Language and Culture 2
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97101 Chinese Language and Culture 1

This subject is designed for students who have successfully completed Chinese 1 or its equivalent. It continues to develop students' communicative competence in basic social interactions and their knowledge of Chinese culture. Students learn to communicate in simple and routine tasks on topics concerning people, places and situations. They learn to use Pinyin to acquire a basic knowledge of Chinese pronunciation and intonation, recognise approximately 600 characters, and read short, simple texts written in characters. Students may undertake specific projects to explore and/or facilitate the use of medicines, including health promotion activities, clinical audits, evaluation of interventions, development of resources and activities to support special populations (e.g. Indigenous health, aged care).
97103 Chinese Language and Culture 3  
8cp; 4hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97102 Chinese Language and Culture 2  
This subject is designed for students who have successfully completed Chinese 2 or its equivalent. It develops students' oral communicative proficiency to satisfy their basic survival needs and to enhance their ability to use Chinese characters by gradually introducing more written texts. Students learn to deal with most situations in areas where the language is spoken and to understand the main points of clear, standard speech when the delivery is relatively slow and clear. They also learn to enter unprepared into conversation on topics that are of personal interest or pertinent to everyday life. They acquire approximately 1200 characters and understand texts that consist of everyday language. Students are also taught to write simple connected texts and to describe personal experiences and impressions, and acquire a knowledge and appreciation of Chinese culture and society.  
Typical availability  
Autumn semester, City campus  
97104 Chinese Language and Culture 4  
8cp; 4hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97103 Chinese Language and Culture 3  
This subject is designed for students who have successfully completed Chinese 3 or its equivalent. It further develops students' communicative competence to enable them to interact with native speakers of Chinese in a range of basic social situations. Great emphasis is placed on the introduction of more written texts which allow students to use Chinese characters more confidently. Students learn to understand extended speech and follow the lines of argument on reasonably familiar topics, and interact with Chinese speakers with a degree of fluency and spontaneity, participate in discussion and express personal viewpoints in familiar contexts. Students acquire approximately 1600 characters, and read and understand literary prose and articles concerned with contemporary problems. Students learn to write clear and detailed texts related to personal interests, and understand Chinese culture and Chinese ways of thinking.  
Typical availability  
Spring semester, City campus  
97105 Chinese Language and Culture 5  
8cp; 4hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97104 Chinese Language and Culture 4  
This subject is designed for students who have successfully completed Chinese 4 or its equivalent. It aims to further develop students' communicative competence in general social interactions with a focus on developing their practical writing skills. By the end of the subject, students are able to use the language and express themselves flexibly and effectively for social purposes. They are able to understand extended and more complex speech, and understand the main points of common radio, TV programs and films. Students are able to acquire approximately 2000 characters, and read and comprehend long and complex texts with a range of written styles. They are able to write clear, well-structured texts, discussing social and cultural issues with personal points of view and understand Chinese culture and contemporary Chinese society.  
Typical availability  
Autumn semester, City campus  
97106 Chinese Language and Culture 6  
8cp; 2hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97105 Chinese Language and Culture 5  
This subject is designed for students who have successfully completed Chinese 5 or its equivalent. It further develops students' reading and writing skills while reinforcing their communicative competence in general social interactions. Students learn to take part effortlessly in any conversation or discussion, and have a good familiarity with idiomatic expressions and colloquialisms. They learn to understand the majority of news and radio programs, TV shows and films, acquire about 2000 characters, and learn to read with ease virtually all forms of written texts such as reports, essays and literary works. They also learn to write clear, smoothly-flowing text in an appropriate style and have a deep understanding of Chinese culture and contemporary Chinese society.  
Typical availability  
Spring semester, City campus  
97109 Chinese Mass Media  
8cp; 4hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97107 Chinese Language and Culture 7 OR 97108 Chinese Language and Culture 8 OR 97110 Twentieth Century Chinese Fiction OR 97111 Chinese Festivals and Ceremonies OR 97112 Chinese Film  
This subject is designed for students who have a good knowledge of Chinese. It aims to develop a high level of communicative competence using various formats and current knowledge about contemporary China. The teaching focuses on understanding varieties of media sources, including daily news, newspaper/magazine articles and current affairs reports. Students are exposed to a range of Chinese texts to develop their knowledge of listening and speaking capabilities through watching CCTV daily news, class discussions and other activities. By the end of this subject, students are able to read newspaper/magazine articles and understand daily news on TV with ease. They also acquire good skills for selecting and summarising the contents of various media sources and writing essays on a topic about China.  
Typical availability  
Spring semester, City campus  
97110 Twentieth Century Chinese Fiction  
8cp; 2hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97107 Chinese Language and Culture 7 OR 97108 Chinese Language and Culture 8 OR 97109 Chinese Mass Media OR 97111 Chinese Festivals and Ceremonies OR 97112 Chinese Film  
This subject is designed for students who have successfully completed Chinese 9, Chinese Ceremonies and Festivals, Chinese Film, Chinese Mass Media, or who are native speakers of Modern Standard Chinese. It develops students towards a high level of communicative competence in reading and writing, and an understanding of modern and contemporary Chinese society. It does this by exposing them to a range of texts of twentieth-century Chinese literature and history, language and culture, as well as documentaries and films. Students gain a general understanding of modern Chinese literature and are able to acquire language varieties in Modern Standard Chinese with the ability to use them appropriately. Students also develop a critical way of thinking and write reviews and essays of about 3000 characters.  
Typical availability  
Spring semester, City campus  
97111 Chinese Festivals and Ceremonies  
8cp; availability: exchange and study abroad students with faculty approval  
Requisites: 97106 Chinese Language and Culture 6 OR 97112 Chinese Film OR 97107 Chinese Language and Culture 7 OR 97108 Chinese Language and Culture 8 OR 97109 Chinese Mass Media OR 97110 Twentieth Century Chinese Fiction  
This subject is designed for students with functional competence in oral and written Chinese. It aims to develop a high level of communicative capacity and cultural awareness using various formats and current knowledge about Chinese language and culture. The teaching focuses on major Chinese festivals and ceremonies. Students are exposed to a range of Chinese texts to develop their knowledge of Chinese culture as lived experience and understanding of Chinese ideas, beliefs and values embodied in daily practices and cultural conventions. They are also provided with opportunities to improve their oral and written communicative skills through class discussions, debates, oral presentations, reading, and writing. By the end of this subject, students have gained a good understanding of Chinese cultural traditions and conventions as well as a sound knowledge of Chinese festivals and ceremonies; at the same time, they have enhanced their speaking, reading and writing proficiency in Chinese. The subject is taught in Chinese.  
Typical availability  
Autumn semester, City campus  
97112 Chinese Film  
8cp; 2hpw; availability: exchange and study abroad students with faculty approval  
Requisites: 97107 Chinese Language and Culture 7 OR 97108 Chinese Language and Culture 8 OR 97109 Chinese Mass Media OR 97110 Twentieth Century Chinese Fiction  
This subject is designed for students with a good knowledge of Chinese. It aims to develop a high level of communicative competence through watching CCTV weekly news, class discussions and other activities. By the end of this subject, students are able to read newspaper/magazine articles and understand daily news on TV with ease. They also acquire good skills for selecting and summarising the contents of various media sources and writing essays on a topic about China.  
Typical availability  
Autumn semester, City campus
97112 Chinese Film
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97106 Chinese Language and Culture 6 OR 97111 Chinese Festivals and Ceremonies OR 97107 Chinese Language and Culture 7 OR 97108 Chinese Language and Culture 8 OR 97109 Chinese Mass Media OR 97110 Twentieth Century Chinese Fiction
This subject is designed for students with functional competence in oral and written Chinese. It aims to develop a high level of communicative capacity and cultural awareness using feature films of the Post-Mao era. Students are exposed to some of the best films of the last three decades to develop their knowledge of Chinese culture as lived experience and their understanding of social change in China. They are also provided with opportunities to improve their listening, speaking, reading and writing skills through class discussions, debates, oral presentations, reading, and writing. By the end of this subject, students have gained a good understanding of a broad range of cultural practices and social change over the last three decades; at the same time, they have enhanced their proficiency in Chinese. The subject is taught in Chinese.

Typical availability
Autumn semester, City campus
Spring semester, City campus

97201 Japanese Language and Culture 1
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
This is the first unit in the Japanese Language and Culture program. It is designed as a first step in providing students with the basic survival language skills and sociocultural awareness to enable them to undertake in-country study in Japan.
While focusing primarily on the development of speaking and listening skills, the subject also provides a working knowledge of the hiragana and katakana scripts and approximately 50 kanji. Discussions of sociolinguistic and cross-cultural issues are an integral part of the language lessons.
The subject focuses on the development of skills required for the most basic predictable situations in which the speaker might initially be required to communicate.
This subject forms the basis for further study (Japanese 2).

Typical availability
Autumn semester, City campus

97202 Japanese Language and Culture 2
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97201 Japanese Language and Culture 1
This subject is designed for students who have completed Japanese 1 or its equivalent. It aims to further develop students' communicative competence on a range of topics, including discussions on families, making appointments and visiting people. By the end of this subject, students should be able to demonstrate the language and sociocultural skills required to establish and develop relationships, and to fulfill basic survival needs in a Japanese-speaking environment.
By the completion of this subject, students are expected to be able to read and write 150 kanji. This subject lays the basis for further studies in Japanese language and culture (Japanese 3).

Typical availability
Spring semester, City campus

97203 Japanese Language and Culture 3
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97202 Japanese Language and Culture 2
This subject is designed for students who have completed Japanese 2 at UTS or its equivalent. It is also the entry point for students who have completed HSC Japanese (Continuers). Informal spoken Japanese is introduced in this subject. The aim of the subject is to develop students' spoken skills and their sociocultural awareness of when to use the different language registers according to social relationships in Japanese. By the end of this subject, students are expected to have developed their listening and spoken skills to the level where they can communicate effectively in a range of everyday situations. Students are expected to be able to read and write approximately 250 kanji by the end of this subject.
This subject lays the basis for further studies in Japanese language and culture (Japanese 4).

Typical availability
Autumn semester, City campus

97204 Japanese Language and Culture 4
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97203 Japanese Language and Culture 3
This subject is designed for students who have completed Japanese 3 or its equivalent. In this subject students consolidate their skills in listening, reading, writing and speaking. It is designed to broaden students' knowledge of Japanese language and culture. Upon completion of this subject students should be able to interact in limited social, academic and work contexts with Japanese speakers and are expected to be able to read and write approximately 350 kanji. The learning of the sociocultural use of the language is an integral part of this subject. Students are also required to use a range of resources that facilitate independent language learning.
This subject lays the basis for further studies in Japanese language and culture (Japanese 5).

Typical availability
Spring semester, City campus

97205 Japanese Language and Culture 5
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97204 Japanese Language and Culture 4
This subject is the third in a series of four subjects in the post-HSC series, and is for those who have successfully completed either Japanese 4 or its equivalent. It aims to further develop listening, speaking, reading, writing and cultural skills.
The subject focuses on the development of language skills and cultural sensitivity required in formal and informal situations which occur in both routine social, and limited vocational areas. It forms the basis for further study (Japanese 6, usually only run in Autumn semester).

Typical availability
Autumn semester, City campus

97206 Japanese Language and Culture 6
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97205 Japanese Language and Culture 5
This subject subject aims to consolidate and further improve students' oral performance and report-writing skills and their cultural sensitivity in both formal and informal situations. By the end of this subject, students are expected to have achieved minimal vocational proficiency and be able to speak the language with sufficient structural accuracy and vocabulary to participate effectively in limited conversations on social and vocational topics. By the end of the subject, students are expected to be able to read and write approximately 600 kanji. The learning of the sociocultural use of the language is an integral part of this subject. Students are also required to use a range of resources that facilitate independent language learning.
This subject lays the basis for further studies in Japanese language and culture (Japanese 7).

Typical availability
Spring semester, City campus

97207 Japanese Films and Popular Culture
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97206 Japanese Language and Culture 6 OR 97208 Japanese Language and Identity OR 97209 Japanese Media and Current Issues OR 97210 Transcultural Communication in Japanese
This subject is designed to provide students who have successfully completed Japanese 6 or its equivalent with the ability to consolidate and extend their knowledge of Japanese in preparation for a period of in-country study in Japan. Throughout this subject, students are expected to continue to develop the communication skills required to function effectively in Japanese. The subject focuses on the development of speaking and listening skills through the analysis of feature films and television series, and is for those who have successfully completed either Japanese 5 or its equivalent. It aims to further develop listening, speaking, reading, writing and cultural skills.
The subject focuses on the development of language skills and cultural sensitivity required in formal and informal situations which occur in both routine social, and limited vocational areas. It forms the basis for further study (Japanese 6, usually only run in Autumn semester).

Typical availability
Spring semester, City campus

Access conditions are available in the individual subject descriptions in the online handbook.
academic contexts in Japan. In the first half of the subject, the focus is on the development of academic reading and writing skills and the acquisition of a vocabulary based on reading, understanding and discussing various topics and viewpoints on the interrelationships between Japanese language and culture. In the second half of the subject, the focus is on the comprehension of university lectures in Japanese, with an emphasis on the development of listening and note-taking skills. In terms of literacy development, students are expected to be able to recognize and pronounce the kanji introduced in the subject materials, to increase their pace of reading as a result of regular and habitual reading and improved dictionary skills, and to be able to write an increasing number of kanji as required for specific academic tasks.

Typical availability
Autumn semester, City campus

97208 Japanese Language and Identity
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97206 Japanese Language and Culture 6 OR 97207 Japanese Films and Popular Culture OR 97209 Japanese Media and Current Issues OR 97210 Transcultural Communication in Japanese

This subject is designed to provide students who have successfully completed Japanese 7 or its equivalent with the ability to consolidate and extend their knowledge of Japanese. The main focus of this subject is on the further development of presentation skills and the skills required to undertake research in Japanese.

Throughout the subject, students are expected to actively engage in academic reading and writing and participate in classroom discussions. In terms of literacy development, students are expected to increase their pace of reading as a result of regular and habitual reading, and to be able to write and recognize an increasing number of kanji as required for specific academic tasks.

Typical availability
Spring semester, City campus

97209 Japanese Media and Current Issues
8cp
Requisite(s): 97206 Japanese Language and Culture 6 OR 97207 Japanese Films and Popular Culture OR 97208 Japanese Language and Identity OR 97210 Transcultural Communication in Japanese

Students examine current issues in Japanese media through: a) reading articles, essays and commentaries from a variety of sources, b) watching documentary films and news programs, c) class discussions and d) carrying out a research on a current issue to write a report and a presentation. The subject aims to provide students considerable opportunities to explore the contexts of current issues in order to gain deeper understandings of cultural aspects that underlie them. Throughout this subject, students are expected to consolidate and extend their knowledge of Japanese language in preparation for a period of in-country study in Japan, as well as a critical approach to cultural phenomena of both Japan’s and their own. The subject is taught in Japanese.

97210 Transcultural Communication in Japanese
8cp
Requisite(s): 97206 Japanese Language and Culture 6 OR 97207 Japanese Films and Popular Culture OR 97208 Japanese Language and Identity OR 97209 Japanese Media and Current Issues

This subject is designed to provide students considerable opportunities to engage with Japanese culture, language and people. Students will examine the socio-cultural context in which the language is used under globalisation. It questions what constitutes Japanese language and culture and what it means to speak in Japanese with people of different cultural background in a transcultural environment where cultural and linguistic diversity and mobility are prominent across borders. Students are required to read or otherwise prepare extensively in preparation for classroom presentations, discussions and debates.

97401 French Language and Culture 1
8cp; 4hpw; availability: exchange and study abroad students with faculty approval

This subject is designed to provide students, who have no prior knowledge of the French language, with basic reading, listening, speaking and writing skills in French. The subject allows for an understanding of the sociocultural context in which the language is used. By the end of the semester, students are able to understand and use familiar words and basic sentence structures. They learn to answer and ask simple questions about themselves and others, describe people and surroundings, give directions and interact in a simple way on a familiar topic such as an invitation to go out or a restaurant situation.

Typical availability
Autumn semester, City campus

97402 French Language and Culture 2
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97401 French Language and Culture 1

This subject is designed to provide students who have little prior knowledge of the French language with basic reading, listening, speaking and writing skills in French. The subject allows for an understanding of the sociocultural context in which the language is used. By semester’s end students are expected to communicate simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities, and use a wide range of grammatical concepts and familiar vocabulary in spoken and written French.

Typical availability
Spring semester, City campus

97403 French Language and Culture 3
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97402 French Language and Culture 2

This subject is designed to provide students who have some knowledge of French, with further skills in reading, listening, speaking and writing. The subject allows for an understanding of the sociocultural context in which the language is used. In addition to basic grammatical concepts, this subject encourages students to explore more complex structures such as hypotheses, causes, consequences, probabilities and impossibilities. Students take active part in discussions on subjects related to topical issues, including debating their pros and cons.

Typical availability
Autumn semester, City campus

97404 French Language and Culture 4
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97403 French Language and Culture 3

This subject is designed to provide students who have some knowledge of French with further skills in reading, listening, speaking and writing. The subject allows for an understanding of the sociocultural context in which the language is used. In addition to basic grammatical concepts, students are encouraged to explore more complex constructions such as writing formal letters and recognizing literary French. They take active part in discussions on topical issues and are introduced to situations likely to arise while travelling in an area where the language is spoken.

Typical availability
Spring semester, City campus

97405 French Language and Culture 5
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97404 French Language and Culture 4

This subject is designed to provide students with a good understanding of French, with further skills in reading, listening, speaking and writing. The subject allows for an understanding of the sociocultural context in which the language is used. Students learn to use spoken and written language flexibly and effectively; presenting clear, detailed descriptions of complex subjects and expressing points of view on social and contemporary issues.

Typical availability
Autumn semester, City campus
97406 French Language and Culture 6
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97405 French Language and Culture 5
This subject is designed to provide students with a good understanding of French with further skills in reading, listening, speaking and writing. The subject allows for an understanding of the sociocultural context in which the language is used. By the end of the semester, students are expected to be able to express themselves fluently and spontaneously on a variety of topics explored in class, particularly issues related to society, culture and politics as well as situations likely to arise while travelling in an area where the language is spoken.

Typical availability
Spring semester, City campus

97407 Francophone Identities in Conflict
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97406 French Language and Culture 6 OR 97408 Show and Tell: Francophone Cultures on Display OR 97409 Francophone Cultures of Consumption OR 97410 Places and Spaces of the Francophone World
This subject is designed to provide students who have little or no difficulty in understanding and writing French with proficiency in reading, listening, speaking and writing in the language as well as considerable opportunities to engage with francophone culture. Students examine the sociocultural context in which the language is used, specifically with regard to questions of identity and conflict in the francophone world. Via written and oral assessments that demonstrate continuing mastery of the French language, students engage with a variety of historical and contemporary sources in a manner that considers their cultural provenance and role. Students are required to read or otherwise prepare extensively in preparation for classroom presentations, discussions and debates.

Typical availability
Autumn semester, City campus

97408 Show and Tell: Francophone Cultures on Display
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97406 French Language and Culture 6 OR 97407 Francophone Identities in Conflict OR 97409 Francophone Cultures of Consumption OR 97410 Places and Spaces of the Francophone World
This subject is designed to provide students who have little or no difficulty in understanding and writing French with proficiency in reading, listening, speaking and writing in the language as well as considerable opportunities to engage with francophone culture. Students examine the socio-cultural context in which the language is used, specifically with regard to its interactions with visual media and/or performance in the Francophone world. Via written and oral assessments that demonstrate continuing mastery of the French language, students engage with a variety of authentic sources in a manner which considers their cultural provenance and role. Students are required to read or otherwise prepare extensively in preparation for classroom presentations, discussions and debates.

Typical availability
Spring semester, City campus

97409 Francophone Cultures of Consumption
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97406 French Language and Culture 6 OR 97407 Francophone Identities in Conflict OR 97408 Show and Tell: Francophone Cultures on Display OR 97410 Places and Spaces of the Francophone World
This subject is designed to provide students, who have little or no difficulty in understanding and writing French, with both proficiency in reading, listening, speaking and writing in the language and considerable opportunities to engage with Francophone culture. Students examine the socio-cultural context in which the language is used, specifically with regard to its interactions with place and the environment in the Francophone world. Via written and oral assessments that demonstrate continuing mastery of the French language, students engage with source texts and objects in a manner that considers their cultural provenance and role. Students are required to read or otherwise prepare extensively in preparation for classroom presentations, discussions and debates.

97410 Places and Spaces of the Francophone World
8cp; availability: exchange and study abroad students with faculty approval.
Requisite(s): 97406 French Language and Culture 6 OR 97407 Francophone Identities in Conflict OR 97408 Show and Tell: Francophone Cultures on Display OR 97409 Francophone Cultures of Consumption
This subject is designed to provide students, who have little or no difficulty in understanding and writing French, with both proficiency in reading, listening, speaking and writing in the language, and considerable opportunities to engage with Francophone culture. Students examine the socio-cultural context in which the language is used, specifically with regard to its interactions with place and the environment in the Francophone world. Via written and oral assessments that demonstrate continuing mastery of the French language, students engage with a variety of authentic sources in a manner which considers their cultural provenance and role. Students are required to read or otherwise prepare extensively in preparation for classroom presentations, discussions and debates.

97501 Spanish Language and Culture 1
8cp; 4hpw; availability: exchange and study abroad students with faculty approval.
This subject aims to provide students who have no prior knowledge of the Spanish language with a range of basic survival skills in order to express their immediate needs in Castilian and Latin American Spanish. Students learn how to give basic information and respond in a culturally and socially appropriate manner in oral and written forms. The four language skills of listening, speaking, reading and writing, both individually and in combination, are developed using authentic materials covering a variety of everyday situations. Signs, menus, narratives and other cultural texts are used for learning and students are taught to write messages or letters using familiar register. Students develop skills for planning, organising and presenting their ideas in Spanish and develop a basic understanding and appreciation of aspects of the cultures of Spanish-speaking peoples.
In addition to the four hours of teaching, students undertake independent learning study outside class time. This independent study is based on selected readings and exercises. Its aim is to expand the student's knowledge of the language and Hispanic cultures and is organised through individual and group tasks, including online activities.
All students undertaking language and culture study at UTS for the first time need to complete a level assessment form, obtained from UTS: International Studies, to ensure that they are placed in an appropriate level for classes. UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

Typical availability
Autumn semester, City campus
97502 Spanish Language and Culture 2
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97501 Spanish Language and Culture 1
This subject is the second in a series of four subjects designed to provide students with no prior knowledge of the Spanish language with the basic survival skills in language and culture required to undertake in-country study in Latin America and Spain.
Emphasis is given to the development of speaking and listening skills required to establish and maintain relationships in social or work-related spheres, and fulfill basic survival needs in a Spanish-speaking environment. Students also expand their reading and writing skills. In addition, the subject focuses on the development of sociocultural understanding relevant to appropriate language use.
The subject consists of 52 hours of classroom instruction. The approach adopted is communicative and provides students with many opportunities to interact and use the language in a meaningful way in various social and cultural contexts. Audio-visual equipment is used to facilitate learning.
This subject forms the basis for further study (Spanish3).

Typical availability
Spring semester, City campus

97503 Spanish Language and Culture 3
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97502 Spanish Language and Culture 2
This subject aims to provide students who have a good knowledge of the Spanish language with a broad range of social situations in order to express their needs in Castilian and Latin American Spanish. Students learn how to give precise information and respond in a culturally and socially appropriate manner in oral and written forms. The four language skills of listening, speaking, reading and writing, both individually and in combination, are further developed using authentic materials covering a variety of situations. Narratives, autobiographies and a variety of other cultural texts are used for learning, and students are taught to write accounts, biographies, letters and to discuss future plans using familiar register. Students further develop skills for planning, organizing and presenting their ideas in Spanish and develop a wide understanding and appreciation of aspects of the cultures of Spanish-speaking peoples.
In addition to the four hours of teaching, students undertake independent learning study outside class time. This independent study is based on selected readings and exercises. Its aim is to expand the student’s knowledge of the language and Hispanic cultures and is organized through individual and group tasks, including online activities.
All students undertaking language and culture study at UTS for the first time need to complete a level assessment form, obtained from UTS: International Studies, to ensure that they are placed in an appropriate level for classes. UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

Typical availability
Autumn semester, City campus

97504 Spanish Language and Culture 4
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97503 Spanish Language and Culture 3
This subject is the fourth in a series of four subjects designed for students with no prior knowledge of the Spanish language, or first in a series of four units for students who have successfully completed HSC Spanish, or its equivalent. It provides students with basic survival skills in language and culture and the ability to undertake in-country studies in Latin and South America.
This subject aims to consolidate and further improve the skills of aural comprehension and oral performance as well as reading and writing. In addition, it covers aspects of the literature and lifestyle of Latin America and Spain.

Typical availability
Spring semester, City campus

97505 Spanish Language and Culture 5
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97504 Spanish Language and Culture 4
This subject aims to provide students who have a firm knowledge of the Spanish language with a broad range of social situations in order to express their needs in Castilian and Latin American Spanish. Students learn how to express complex ideas and respond in a culturally and socially sensitive manner in oral and written forms. The four language skills of listening, speaking, reading and writing, both individually and in combination, are further developed using authentic materials covering a variety of situations. A range of authentic reading material, including texts with regional and social variants and specific registers such as alcoholism, immigration, education, child delinquency, poverty and short stories from Spain and Latin America, are used for learning, and students are taught to write complex letters and essays expressing a point of view. Students further develop skills for planning, organizing and presenting their ideas in Spanish and develop a sophisticated understanding and appreciation of aspects of the cultures of Spanish-speaking peoples.
In addition to the four hours of teaching, students undertake independent learning study outside class time. This independent study is based on Hispanic literature containing short stories, a film analysis and essays expressing a point of view. Its aim is to expand the student’s knowledge of the sociocultural context and is organized through individual and group tasks, including online activities.
All students undertaking language and culture study at UTS for the first time need to complete a level assessment form, obtained from UTS: International Studies, to ensure that they are placed in an appropriate level for classes. UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

Typical availability
Autumn semester, City campus

97506 Spanish Language and Culture 6
8cp; 2hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97505 Spanish Language and Culture 5
This subject is the sixth in a series of six subjects for students with no prior knowledge of the Spanish language, or first in a series of six subjects for students who have successfully completed HSC Spanish, or its equivalent. One of the primary aims of this subject is to consolidate and extend students’ skills in reading, writing, listening and speaking and prepares them to undertake in-country study in Latin America and Spain. In addition, it covers aspects of Latin American and Spanish people and culture, through contemporary Hispanic literature.

Typical availability
Spring semester, City campus

97507 Spanish Language and Culture 7
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisites/s: 97506 Spanish Language and Culture 6 OR 97508 Spanish Language and Culture 8
This subject aims to provide students who have a firm command of the Spanish language with a broad range of social and political situations in order to express their needs, ideas and arguments in Castilian and Latin American Spanish. Students learn how to communicate in Spanish within a wide range of professional and academic situations at formal and informal levels in oral and written forms. The four language skills of listening, speaking, reading and writing, both individually and in combination, are further developed using authentic materials covering a wide variety of situations. A sophisticated range of authentic material, including films, documentaries, testimonies and music with lyrics with regional and social variants and specific registers, such as Cuba, Chile and Argentina, are used for learning and students are taught to deliver talks in Spanish, engage in debating specific topics and write critical essays.
In addition to the four hours of teaching, students undertake independent learning study outside class time. This independent study is based on multimedia material including reading texts, films and documentaries and essays expressing a point of view. Its aim is...
to expand the student’s knowledge in the sociopolitical context and is organised through individual and group tasks, including online activities.

All students undertaking language and culture study at UTS for the first time need to complete a level assessment form, obtained from UTS: International Studies, to ensure that they are placed in an appropriate level for classes. UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

**Typical availability**

Autumn semester, City campus

**97508 Spanish Language and Culture 8**

8cp; 4hpw; availability: exchange and study abroad students with faculty approval

Requisite(s): 97504 Spanish Language and Culture 6 OR 97507 Spanish Language and Culture 7

This subject aims to provide students who have a strong command of the Spanish language with a broad range of social and political situations in order to express their needs, ideas and arguments in Castilian and Latin American Spanish. Students learn further how to communicate in Spanish within a wide range of professional and academic situations at formal and informal levels in oral and written forms. The four language skills of listening, speaking, reading and writing, both individually and in combination, are further developed using authentic materials covering a rich variety of situations. A sophisticated range of authentic material, including films, documentaries, testimonies and music with lyrics, with regional and social variants, and specific registers, such as the Caribbean, the Andean countries, Latino-USA and Spain, are used for learning and students engage in impromptu debates of specific topics and write critical essays.

In addition to the four hours of teaching, students undertake independent learning study outside class time. This independent study is based on multimedia material including written texts, films and documentaries and essays expressing a point of view. Its aim is to expand the student’s knowledge in the sociopolitical context and is organised through individual and group tasks, including online activities.

All students undertaking language and culture study at UTS for the first time need to complete a level assessment form, obtained from UTS: International Studies, to ensure that they are placed in an appropriate level for classes. UTS: International Studies reserves the right to place students in a class that is appropriate for their level of language proficiency.

**Typical availability**

Spring semester, City campus

**97509 Spanish Language and Culture 9**

8cp; availability: exchange and study abroad students with faculty approval

Requisite(s): 97508 Spanish Language and Culture 8

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

**97510 Spanish Language and Culture 10**

8cp; availability: exchange and study abroad students with faculty approval

Requisite(s): 97509 Spanish Language and Culture 9

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

**976001 Foundations in International Studies**

8cp; 3hpw; availability: exchange and study abroad students with faculty approval

Undergraduate

The aim of Foundations in International Studies is to provide students with an understanding of contemporary international issues, approaches and perspectives. The subject is taught from various disciplinary perspectives, with a strong focus on social justice and regional comparison. The objectives of the subject are to develop effective academic presentation, research and writing skills necessary to make informed arguments within international studies and to prepare students for writing and presentation techniques used in the contemporary society and in-country study subjects of the Bachelor of Arts in International Studies. This subject requires students to use multidisciplinary approaches to build understanding of key international issues. Approaches taught include comparative sociology, cultural studies, socio-linguistics, political economy, studies of ethnicity and nationalism. Issues covered include environmental change, globalisation, migration, war, languages, and national identities.

**Typical availability**

Autumn semester, City campus

**97601 German Language and Culture 1**

8cp; 4hpw; availability: exchange and study abroad students with faculty approval

This subject aims to enable students to meet their basic communication needs in everyday social interactions in German, not only by developing skills in listening, speaking, reading and writing German, but also by developing an understanding of the cultures of German-speaking countries. By the end of this subject, students learn to understand a range of everyday written language such as counting, telling the time, instructions and simple personal correspondence. Students also learn to write simple descriptions, complete basic forms and communicate appropriately in situations such as introducing themselves, exchanging personal information, asking and giving directions and discussing daily routines and past events. They develop an understanding of aspects of German-speaking culture and their relationship to appropriate language use as well as develop strategies for long-term effective language learning.

**Typical availability**

Autumn semester, City campus

**97602 German Language and Culture 2**

8cp; 4hpw; availability: exchange and study abroad students with faculty approval

Requisite(s): 97601 German Language and Culture 1

This subject enables students to meet their basic communication needs in everyday social interactions in German, through developing skills in listening, speaking, reading and writing German in a variety of social situations. In this subject, students continue to develop an understanding of aspects of German-speaking culture and appropriate language use as well as developing strategies for long-term effective language learning.

This subject lays the basis for further studies in German Language and Culture 3.

**Typical availability**

Spring semester, City campus

**97603 German Language and Culture 3**

8cp; 4hpw; availability: exchange and study abroad students with faculty approval

Requisite(s): 97602 German Language and Culture 2

In this subject, students further develop their evolving skills in listening, speaking, reading and writing in German, as well as developing a deeper understanding of the cultures of German-speaking countries. By the end of this subject, students are able to understand simple texts, effectively and confidently express simple opinions on familiar social or cultural issues in written and spoken discourse, and understand the gist of news and current affairs presented as part of authentic German television or radio programs. They are also able to communicate more effectively in familiar everyday social situations.

Access conditions are available in the individual subject descriptions in the online handbook.
as well as more specific contexts, for example the workplace or at university. Students further develop their understanding of aspects of German-speaking culture and their relationship to appropriate language use, as well as consolidate and expand strategies for long-term effective language learning.

**Typical availability**
Autumn semester, City campus

**97604 German Language and Culture 4**
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97603 German Language and Culture 3

This subject is the fourth in a series of four subjects designed for students with no prior knowledge of the German language, or second in a series of four subjects for students who have successfully completed HSC German at beginner level, or its equivalent. It aims to consolidate and further improve the skills of aural comprehension and oral performance as well as reading and writing. In addition, it covers aspects of the literature and lifestyle of Germany, and provides students with the linguistic skills to successfully take part in a course at a German university.

By the end of the subject, students are expected to have achieved the communicative competence required to satisfy more complex social and professional needs in speaking, listening, reading and writing skills and have developed an awareness of the various social and cultural contexts in which the language is used. Students develop the ability to understand the general content of magazine and newspaper articles. This subject lays the basis for further studies in German language and culture (German Language and Culture 5).

**Typical availability**
Spring semester, City campus

**97605 German Language and Culture 5**
8cp; 2hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97604 German Language and Culture 4

This subject enables students to meet their communication needs in everyday social interactions in German, not only by developing skills in listening, speaking, reading and writing German, but also by developing an understanding of the cultures of German-speaking countries. Students gain an understanding of written texts such as newspaper and magazine articles and literature. These texts are also used as topics for discussion to develop students' listening and speaking skills in German. Students also learn to produce written texts such as a diary and a short essay. They also increase their understanding of current affairs in German-speaking countries.

**Typical availability**
Autumn semester, City campus

**97606 German Language and Culture 6**
8cp; 2hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97605 German Language and Culture 5

This subject corresponds to Level B2 (independent user) of the Common European Framework of Reference for Languages (Council of Europe). It is the fourth in a series of four subjects for students who have successfully completed HSC German, or its equivalent, or the second in the series for students doing German Language and Culture 5, 6, 7 and 8. The subject aims to consolidate and further improve the skills of aural comprehension and oral performance as well as reading and writing in more demanding and complex situations concerning university life in Germany. In addition, it covers aspects of the literature and lifestyle of Germany, and provides students with the linguistic skills to successfully take part in a course at a German university. The subject aims to consolidate and further improve the communicative competence required to satisfy more complex social and professional needs in speaking, listening, reading and writing skills and to have developed an awareness of the various social and cultural contexts in which the language is used. Students develop the ability to understand not only the general content of magazine and newspaper articles but also the ability to comprehend academic texts. The approach adopted is communicative and provides many opportunities for students to interact and use the language in a meaningful way in various social and cultural contexts.

**Typical availability**
Spring semester, City campus

**97607 German Language and Culture 7**
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97606 German Language and Culture 6

The subject aims to consolidate and further improve students' already considerable skills of aural comprehension and oral performance as well as reading and writing in more demanding and complex situations concerning university life in Germany and other aspects of German society. It provides students with the linguistic skills to attend a German-speaking university. The subject assumes a sound knowledge of German elementary grammar and teaches students more complex and varied structures. By the end of the subject, students are expected to be approaching the communicative competence required to satisfy complex social and professional needs in speaking, listening, reading and writing skills and have developed an understanding of the various social and cultural contexts in which the language is used. Students also expand their ability to understand the general and specific content of sophisticated magazine and newspaper articles.

**Typical availability**
Spring semester, City campus

**97608 German Language and Culture 8**
8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97607 German Language and Culture 7

This subject corresponds to Level C1 (proficient user) of the Common European Framework of Reference for Languages (Council of Europe). The subject aims to consolidate and further improve the skills of aural comprehension and oral performance as well as reading and writing in more demanding and complex situations concerning university life in Germany and other aspects of German society. In addition, it covers aspects of the literature and lifestyle of Germany, and provides students with the linguistic skills to successfully take part in a course at a German university. The subject assumes a sound knowledge of German elementary grammar and enables students to deal with more advanced grammar.

The subject consists of four hours face-to-face classroom instruction per week. The teaching approach adopted is communicative and provides many opportunities for students to interact and use the language in a meaningful way in various social and cultural contexts.

**Typical availability**
Spring semester, City campus

**97609 German Language and Culture 9**
8cp; availability: exchange and study abroad students with faculty approval
Requisite(s): 97608 German Language and Culture 8

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

**97610 German Language and Culture 10**
8cp; availability: exchange and study abroad students with faculty approval
Requisite(s): 97609 German Language and Culture 9

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.
97611 Contemporary China
8cp; 3hpw
Requisite(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject deals with the politics of reading and writing the People’s Republic of China (PRC). It starts by examining the history of the PRC, from the Chinese Communist Party’s (CCP) rise to power in 1949 to the death of Chairman Mao Zedong in 1976. A key focus is how the CCP’s leadership attempted to resolve an issue that stalks the Chinese government even today: the question of how to modernise China and still keep faith with the ethical imperatives of socialist transition. In doing so, the subject examines how Western commentators and mainland Chinese scholars have chosen to evaluate the Chinese revolution in different historical periods. The subject then outlines some of the enormous changes that have taken place in the PRC since the introduction of market-based reforms in December 1978. With the introduction of economic reform and opening up, China entered the postmodern, global community and now faces similar social concerns to those that inform Western societies: inflation, unemployment, environmental degradation, growing crime rates, and ethnic tensions. However, following the Chinese government’s brutal suppression of the student protest movement in 1989, the PRC’s response to many of these issues has been accompanied by Western criticisms of human rights abuses and claims that the CCP has failed to abandon the ‘totalitarian’ politics of the now denigrated Maoist era. The subject concludes by asking students to determine whether such views are justifiable and how we should read and write present-day China.

Typical availability
Spring semester, City campus

97621 Contemporary Japan
8cp; 3hpw; availability: International Studies combined degree students; International Studies students on dual programs of study from UT斯 international partners; students enrolled in an International Studies sub-major; students wishing to take it as an elective; non-award students [including UT斯 staff and research postgraduates]
Requisite(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
On completion of this subject, students have an overview of contemporary Japanese society. Students also have a grasp of the social, political and economic systems at play in Japan, how those systems interact in practice to shape culture, and a historical view of how those systems came into being. Some of the major themes students are able to analyse and discuss, using examples, include issues relating to the economic development achieved during the 20th century and current difficulties in reform. Some explanations are based on the unique and enigmatic nature of Japanese society, so students need to be able to discuss the nature of Japan. In order to be able to discuss current reform agendas in Japan, students also need to understand the formation of the workforce and fears about possible future directions of Japanese society.

Typical availability
Spring semester, City campus

97640 Contemporary Switzerland
8cp; 3hpw
Requisite(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject has been designed to provide students with a basic understanding of contemporary Swiss history, politics, society and culture in national, continental and global contexts. In weeks 1 to 4, students follow an umbrella program, shared by all European contemporary society subjects, which introduces general issues relating to contemporary Europe: definitions of Europe, the drive to unification, internal divisions within Europe, and the impact of migration. From week 5 onwards students pursue a separate program, focusing on contemporary Switzerland. The subject provides students with critical skills that allow them to identify major contemporary issues that shape present-day Swiss society. Insights are gained into long-term and more recent history and the complex notion of Swiss identity. Topics include contemporary politics, regional, cultural and linguistic diversity, Swiss neutrality, Switzerland’s role in the Second World War and its subsequent approach to that past, its relationship with the EU and broader international role. Students develop critical thinking skills relevant to the multidisciplinary nature of the subject.

Typical availability
Spring semester, City campus

97641 Contemporary France
8cp; 3hpw
Requisite(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
The subject is designed to provide students with a basic understanding of contemporary French history, politics, society and culture in national, continental and global contexts. In weeks 1 to 4 students follow an umbrella program shared by all contemporary European society subjects, which introduces them to general issues relating to contemporary Europe: definitions of Europe, the drive to unification, internal divisions within Europe, and the impact of migration. From week 5 onwards they pursue a separate program, focusing on contemporary France. The subject provides students with critical skills that allow them to identify major contemporary issues that shape present-day French society. Insights are gained into France’s long-term and more recent history and the notion of French identity within and beyond France itself. Topics include the aftermath of the Second World War, the concept and practice of the French Republic, France’s ‘revolutionary’ aspect, France in the world, and issues relating to contemporary French culture and society. Students develop critical thinking skills relevant to the multidisciplinary nature of the subject.

Typical availability
Spring semester, City campus
976431 Contemporary Italy
8cp; 3hpw; availability: International Studies combined degree students; International Studies students on dual programs of study from UTS international partners; students enrolled in an International Studies sub-major; students wishing to take it as an elective; non-award students (including UTS staff and research postgraduates)
Requisites(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject has been designed to provide students with a basic understanding of contemporary Italian history, politics, society and culture in national, continental and global contexts. In weeks 1 to 4, students follow an umbrella program shared by all contemporary European society subjects. This introduces them to general issues relating to contemporary Europe: definitions of Europe, the drive to unification, internal divisions within Europe, and the impact of migration. From week 5, students in this subject pursue a separate program, focusing on contemporary Italy. The subject provides students with critical skills that allow them to identify major contemporary issues that shape present-day Italian society. Insights are gained into Italy’s history since unification (in 1861) and the contested notion of national identity within and beyond Italy itself. Topics cover gender, religion, education, contemporary politics, the ‘southern question’, emigration and immigration. Students develop critical thinking skills relevant to the multidisciplinary nature of the subject.

Typical availability
Spring semester, City campus

976451 Contemporary Spain
8cp; 3hpw
Requisites(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject introduces students to selected aspects of contemporary Spanish history, culture and social life, and relates contemporary Spain to European and global histories. The overarching question that students are encouraged to ask and answer is ‘What is Spain?’ For the first four weeks of the subject students learn about general European issues: definitions of Europe, the drive to unification, internal divisions within Europe and the impact of migration. The Spain-specific lectures and seminars in the subject build from noting divergent and contradictory historical ways of conceptualising Spain, with attention paid to the legacies of waves of immigrant peoples and empires, religions and ethnicities. The subject also pays close attention to the modern history of Spain from the Second Republic in the 1930s, through the Civil War and Franco dictatorship to the restoration of democracy in the 1980s and the change in government in 2004, with specific investigation of regional drives, tourism and the manufacturing of ‘Spanishness’, gender and sexual politics, and the changing political and cultural climate. Students develop critical thinking skills relevant to the multidisciplinary nature of the subject.

Typical availability
Spring semester, City campus

976502 Contemporary Latin(o) Americas
8cp; 3hpw
Requisites(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject introduces students to the Spanish-speaking Americas and their sociocultural, political and economic dimensions. It begins with an overview of the periods of colonisation, independence and nation-state formation as stages vital to understanding Latin America’s problematic insertion into Western modernity in the 20th century, and the complex interactions between the USA and the Spanish-speaking Americas since the mid-19th century. Students gain knowledge of important sociocultural and historical processes, as well as current theories, concepts and debates, in relation to patterns of change in Latin America and in an increasingly Latinised USA, now the world’s second largest Spanish-speaking country after Mexico. The subject links contemporary Latin American and US Latino peoples and cultures to broader processes of transnationalisation, globalisation and transculturation. The subject encourages students to develop critical skills for identifying the major contemporary issues at work in the Spanish-speaking Americas. This is a core subject for students doing the combined degree in international studies with any of the following country specialisations: Chile, Argentina, Mexico and Latino USA. Other students may take this subject as an elective. The subject requires no prior knowledge of Latin America, Latino communities in the USA, or the Spanish language.

Typical availability
Spring semester, City campus

976602 Contemporary Canada (Quebec)
8cp; 3hpw
Requisites(s): 976001 Foundations in International Studies
These requisites may not apply to students in certain courses. See access conditions.
Undergraduate
This subject aims to provide students with a basic understanding of the history, politics, society and culture of Quebec (Canada). It examines the history of Quebec, with a particular focus on events since the Quiet Revolution. It provides an overview of the economic and political development of Quebec. Central themes in Quebec society such as nationalism, independence movements and language are studied. Literature, cinema and other cultural works provide case studies in which these and other issues are examined. The subject thus introduces students to Quebec’s diversity and heterogeneity in regional, national, continental and international contexts. Students develop critical thinking skills relevant to the multidisciplinary nature of the subject. The subject gives students the opportunity to develop a critical appreciation of societies outside Australia.

Typical availability
Spring semester, City campus

977110 In-country Study 1: China
24cp; attendance at host university classes; availability: not offered to exchange and study abroad students
Requisites(s): 976111 Contemporary China AND 976001 Foundations in International Studies
Undergraduate
This subject is the key component of the China major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance. The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus

977210 In-country Study 1: Japan
24cp; attendance at host university classes; availability: not offered to exchange and study abroad students
Requisites(s): 976211 Contemporary Japan AND 976001 Foundations in International Studies
Undergraduate
This subject is the key component of the Japan major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance. The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Spring semester, City campus
The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

977400 In-country Study 1: Switzerland
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 976404 Contemporary Switzerland AND 976001 Foundations in International Studies Undergraduate

This subject is the key component of the Switzerland major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

977520 In-country Study 1: Chile
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 976001 Foundations in International Studies AND 976502 Contemporary Latin(o) Americas Undergraduate

This subject is the key component of the Chile major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

977530 In-country Study 1: Mexico
24cp; attendance at host university classes; availability: not offered to exchange and study abroad students
Requisite(s): 976502 Contemporary Latin(o) Americas AND 976001 Foundations in International Studies Undergraduate

This subject is the key component of the Mexico major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus
The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

977543 In-country Study 1: Canada

24cp; availability: not offered to exchange and study abroad students
Requisite(s): 976001 Foundations in International Studies AND 976602 Contemporary Canada (Quebec)
Undergraduate

This subject is the key component of the Canada major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

977620 In-country Study 1: Latino USA

24cp; attendance at host university classes; availability: not offered to exchange and study abroad students
Requisite(s): 976502 Contemporary Latin(o) Americas AND 976001 Foundations in International Studies
Undergraduate

This subject is the key component of the Latino USA major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject recognises that intercultural competence is integral to professional practice. It aims to foster in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

Typical availability
Autumn semester, City campus

Spring semester, City campus

97804 Italian Language and Culture 4

8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97802 Italian Language and Culture 2

This subject caters for students at the ‘upper intermediate’ level of competence in Italian language and culture. It consolidates and further expands the linguistic and cultural capabilities and general language learning strategies acquired through prior exposure to the Italian language, or through Italian 3. It enables students to understand the main ideas of complex texts on both concrete and abstract topics; interact with a degree of fluency and spontaneity; produce clear, detailed text on a wide range of subjects; and effectively explain a viewpoint on a topical issue. Students increase their knowledge of the Italian culture, assisting them in the further development of communication skills.

Typical availability
Spring semester, City campus

97805 Italian Language and Culture 5

8cp; 4hpw; availability: exchange and study abroad students with faculty approval
Requisite(s): 97804 Italian Language and Culture 4

This subject caters for students at the ‘lower advanced’ level of competence in Italian language and culture. It consolidates and further expands the linguistic and cultural capabilities and general language learning strategies acquired through prior exposure to the Italian language, or through Italian 4. It explores Italian culture in a variety of more specific contexts, e.g. the workplace or at university. Students increase their knowledge of the Italian culture, assisting them in the further development of communication skills.
Italian language, or through Italian 4. Upon completion, students understand a wide range of texts and recognise implicit meaning; effectively express points of view on social and contemporary issues without much obvious searching for expressions; and produce clear, well-structured texts. They also increase their understanding of current affairs in Italy through watching and discussing Italian-language videos and TV programs.

**Typical availability**

Autumn semester, City campus

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**97806 Italian Language and Culture 6**

8cp; 4hpw; availability: exchange and study abroad students with faculty approval.  Requisite(s): 97805 Italian Language and Culture 5

This subject is designed to consolidate and further expand the linguistic and cultural capabilities and general language learning strategies acquired through prior exposure to the Italian language, or through Italian Language and Culture 5. Upon completion, students can understand a wide range of demanding, longer texts, and recognise implicit meaning; use the language flexibly, effectively and in a culturally appropriate manner; and produce clear, well-structured text, showing controlled use of organisational patterns, connectors and cohesive devices.

**Typical availability**

Spring semester, City campus

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**97807 Italian Language and Culture 7**

8cp; availability: exchange and study abroad students with faculty approval.  Requisite(s): 97806 Italian Language and Culture 6

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

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**97808 Italian Language and Culture 8**

8cp; availability: exchange and study abroad students with faculty approval.  Requisite(s): 97807 Italian Language and Culture 7

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

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**97809 Italian Language and Culture 9**

8cp; availability: exchange and study abroad students with faculty approval.  Requisite(s): 97808 Italian Language and Culture 8

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

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**97810 Italian Language and Culture 10**

8cp; availability: exchange and study abroad students with faculty approval.  Requisite(s): 97809 Italian Language and Culture 9

In some instances, and with approval from relevant major coordinators, students in the combined degree in international studies may take higher level language and culture subjects at other universities through concurrent study arrangements. Students need to plan ahead and check the deadline for when cross-institutional applications close at the other university.

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**978110 In-country Study 2: China**

24cp; availability: not offered to exchange and study abroad students.  Requisite(s): 977110 In-country Study 1: China

Undergraduate

This subject is the key component of the China major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1. China to recognise that intercultural competence is integral to professional practice. In-country Study 2: China further develops students' capacity for critical reflection, in particular, the ability to identify and question one's cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student's International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

**Typical availability**

Autumn semester, City campus

Spring semester, City campus

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**978134 In-country Study: Canada**

24cp; availability: not offered to exchange and study abroad students

Postgraduate

In-country Study: Canada is the key component of the Canada major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Canada enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies' principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Canada recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one's cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program's positive outcomes, the subject's learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Canada.

In-country Study Canada consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject's assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Canada are the culmination of a student's Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

In-country Study: Canada is a full-time 24-credit point subject, which is a full time load.

**978135 In-country Study: Chile**

24cp; availability: not offered to exchange and study abroad students

Postgraduate

In-country Study: Chile is the key component of the Chile major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Chile enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies' principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Chile recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one's cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program's positive outcomes, the subject's learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Chile.

In-country Study Chile consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the
host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Chile are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures. In-country Study: Chile is a full-time 24-credit point subject, which is a full-time load.

978136 In-country Study: China
24cp; availability: not offered to exchange and study abroad students Postgraduate

In-country Study: China is the key component of the China major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: China enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: China recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in China. In-country Study China consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: China are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures. In-country Study: China is a full-time 24-credit point subject, which is a full-time load.

978137 In-country Study: France
24cp; availability: not offered to exchange and study abroad students Postgraduate

In-country Study: France is the key component of the France major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: France enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: France recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in France. In-country Study France consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: France are the culmination of a student’s Master of Arts in International Studies, and are intended to prepare students for lifelong learning about international societies and cultures. In-country Study: France is a full-time 24-credit point subject, which is a full-time load.

978138 In-country Study: Germany
24cp; availability: not offered to exchange and study abroad students Postgraduate

This subject is the key component of the Germany major in the MA in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. It enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. The subject recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection – in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Germany. The subject consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of this subject are the culmination of a student’s MA in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures. This is a full-time, 24-credit point subject, which is a full-time load.

978139 In-country Study: Italy
24cp; availability: not offered to exchange and study abroad students Postgraduate

In-country Study: Italy is the key component of the Italy major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Italy enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Italy recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Italy. In-country Study Italy consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Italy are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures. In-country Study: Italy is a full-time 24-credit point subject, which is a full-time load.

978140 In-country Study: Japan
24cp; availability: not offered to exchange and study abroad students Postgraduate

In-country Study: Japan is the key component of the Japan major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Japan enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Japan recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Japan. In-country Study Japan consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Japan are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures. In-country Study: Japan is a full-time 24-credit point subject, which is a full-time load.

978141 In-country Study: Latino USA
24cp; availability: not offered to exchange and study abroad students Postgraduate

In-country Study: Latino USA is the key component of the Latino USA major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Latino USA enables students to experience living and studying in the culture of their specialisation,
and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Switzerland is the key component of the Switzerland major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Switzerland enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Switzerland recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Switzerland. In-country Study: Switzerland is a full-time 24-credit point subject, which is a full time load.

978144 In-country Study: Switzerland
24cp; availability: not offered to exchange and study abroad students
Postgraduate

In-country Study: Switzerland is the key component of the Switzerland major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Switzerland enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Switzerland recognizes that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Switzerland. In-country Study Switzerland consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Switzerland are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

In-country Study: Switzerland is a full-time 24-credit point subject, which is a full time load.

978143 In-country Study: Spain
24cp; availability: not offered to exchange and study abroad students
Postgraduate

In-country Study: Spain is the key component of the Spain major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Spain enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Spain recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Spain. In-country Study Spain consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Spain are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

In-country Study: Spain is a full-time 24-credit point subject, which is a full time load.

978145 In-country Study: Argentina
24cp; availability: not offered to exchange and study abroad students
Postgraduate

In-country Study: Argentina is the key component of the Argentina major in the Master of Arts in International Studies, and involves one semester of study overseas attached to a partner institution of UTS. In-country Study: Argentina enables students to experience living and studying in the culture of their specialisation, and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Argentina recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions during their semester in Argentina. In-country Study Argentina consists of an agreed program of study at the host university (including language classes), and assessments based on humanities/social sciences research conducted in and about the host society. The subject’s assessment tasks are the medium through which sustained immersion and engagement with the host country is demonstrated. The assessments and life experiences of In-country Study: Argentina are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

In-country Study: Argentina is a full-time 24-credit point subject, which is a full time load.

978210 In-country Study 2: Japan
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977210 In-country Study 1: Japan
Undergraduate

This subject is the key component of the Japan major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance. The subject builds on the life and learning experiences of In-country Study 1: Japan to recognise that intercultural competence is integral to professional practice. In-country Study 2: Japan further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.
Typical availability
Autumn semester, City campus
Spring semester, City campus

978410 In-country Study 2: France
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977410 In-country Study 1: France Undergraduate
This subject is the key component of the France major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: France to recognise that intercultural competence is integral to professional practice. In-country Study 2: France further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

978420 In-country Study 2: Germany
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977420 In-country Study 1: Germany Undergraduate
This subject is the key component of the Germany major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Germany to recognise that intercultural competence is integral to professional practice. In-country Study 2: Germany further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

978430 In-country Study 2: Italy
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977430 In-country Study 1: Italy Undergraduate
This subject is the key component of the Italy major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Italy to recognise that intercultural competence is integral to professional practice. In-country Study 2: Italy further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

978450 In-country Study 2: Spain
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977450 In-country Study 1: Spain Undergraduate
This subject is the key component of the Spain major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Spain to recognise that intercultural competence is integral to professional practice. In-country Study 2: Spain further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.
Typical availability
Autumn semester, City campus
Spring semester, City campus

978530 In-country Study 2: Mexico
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977530 In-country Study 1: Mexico
Undergraduate
This subject is the key component of the Mexico major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Mexico to recognise that intercultural competence is integral to professional practice. In-country Study 2: Mexico further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

978542 In-country Study 2: Argentina
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977542 In-country Study 1: Argentina
Undergraduate
This subject is the key component of the Argentina major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Argentina to recognise that intercultural competence is integral to professional practice. In-country Study 2: Argentina further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

978543 In-country Study 2: Canada
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977543 In-country Study 1: Canada
Undergraduate
This subject is the key component of the Canada major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Canada to recognise that intercultural competence is integral to professional practice. In-country Study 2: Canada further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

978620 In-country Study 2: Latino USA
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977620 In-country Study 1: Latino USA
Undergraduate
This subject is the key component of the Latino USA major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Latino USA to recognise that intercultural competence is integral to professional practice. In-country Study 2: Latino USA further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Typical availability
Autumn semester, City campus
Spring semester, City campus

978911 In-country Study 2: Colombia
24cp; availability: not offered to exchange and study abroad students
Requisite(s): 977911 In-country Study 1: Colombia
Undergraduate
This subject is the key component of the Colombia major in the BA in International Studies, which involves two semesters of study overseas attached to a partner institution of UTS. In-country study is designed to enable students to experience living and studying in the culture of their specialisation and is guided by the principles of cultural immersion and reflection, as well as self-reliance.

The subject builds on the life and learning experiences of In-country Study 1: Colombia to recognise that intercultural competence is integral to professional practice. In-country Study 2: Colombia further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

978912 In-country Study: Colombia
24cp; availability: not offered to exchange and study abroad students
Postgraduate
This subject is the key component of the Colombia major in the Master of Arts in International Studies. It involves one semester of study overseas at a partner institution of UTS. The subject enables students to experience living and studying in the culture of their specialisation and is guided by UTS: International Studies’ principles of cultural immersion and reflection as well as self-reliance and recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The subject builds on the life and learning experiences of In-country Study 1: Colombia to recognise that intercultural competence is integral to professional practice. In-country Study 2: Colombia further develops students’ capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures.

The assessments and life experiences of this subject form the culmination of a student’s International Studies degree at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.

Access conditions are available in the individual subject descriptions in the online handbook.
979105 PhD Thesis: International Studies
6cp
This subject is used only for enrolling students into the PhD in International Studies.
Typical availability
Autumn semester, City campus
Spring semester, City campus

979110 Thesis (International Studies)
6cp
This subject is used only for enrolling students into the Master of Arts in International Studies (Research).
Typical availability
Autumn semester, City campus
Spring semester, City campus

979501 Exchange Elective 1
6cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979502 Exchange Elective 2
6cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979503 Exchange Elective 3
6cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979504 Exchange Elective 4
6cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979505 Exchange Elective 5
8cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979506 Exchange Elective 6
8cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979507 Exchange Elective 7
8cp
The UTS Global Exchange program, administered by UTS International, offers students the option of completing part of their study in another country and receiving credit towards their degree at UTS. Students in the International Studies and Global Studies degrees may have the opportunity to undertake study at an exchange partner university. The subject studied at the exchange partner university should have relevance to a student’s course of study, and be taught and assessed in an acceptable format. Further information is available from Global Exchange at: www.ssu.uts.edu.au/globalexchange

979508 Research in International Studies
8cp
This subject is designed to equip students for independent creative research development while on their period of In-Country Study through the development of the critical, analytical and methodological skills required to complete the planning and proposal stages for a short piece of original research within an international context. It introduces students to qualitative and quantitative social science and cultural studies research and data-gathering methods appropriate to international studies research, how they work in combination, and the analysis and validity of the data they produce. An information literacy seminar will provide archive skills, information on the ethics of doing research with human beings and on the management of data, online research, and bibliographical and referencing skills through the UTS library.

979509 In-country Study: Australia
24cp
This subject is designed to provide an alternative, cognate subject for students who for financial, health, work or family reasons, cannot spend a semester abroad in order to complete their degree. In-country Study: Australia is offered locally but as distance education and is guided by UTS: International Studies’ principles of cultural immersion and reflection, as well as self-reliance. In-country Study: Australia recognises that intercultural competence is integral to professional practice. It develops in students a capacity for critical reflection, in particular, the ability to identify and question one’s cultural assumptions, values and beliefs, and thus to acknowledge and empathise with the perspectives of people from other cultures. To maximise the program’s positive outcomes, the subject’s learning objectives require students to actively seek hands-on social and cultural interactions with their country major diaspora population in Australia. Assessment tasks are based on humanities/social sciences research and are the medium through which engagement with the country major society is demonstrated. The assessments and life experiences of In-country Study: Australia are the culmination of a student’s Master of Arts in International Studies at UTS, and are intended to prepare students for lifelong learning about international societies and cultures.
Access conditions are available in the individual subject descriptions in the online handbook.

979510 Contemporary China
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Chinese history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Chinese society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979511 Contemporary Japan
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Japanese history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Japanese society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979512 Contemporary France
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary French history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day French society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979513 Contemporary Spain
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Spanish history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Spanish society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979514 Contemporary Germany
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary German history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day German society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979515 Contemporary Italy
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Italian history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Italian society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979516 Contemporary Canada (Quebec)
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Quebec (Canada) history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Quebec society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

979517 Contemporary Switzerland
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Swiss history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Swiss society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.
979518 Contemporary Latin(o) Americas
8cp; availability: not offered to exchange and study abroad students
Requisite(s): 979508 Research in International Studies OR 979508 Research in International Studies
These requisites may not apply to students in certain courses. There are also course requisites for this subject. See access conditions.
Postgraduate
The subject is designed to provide students with a basic understanding of contemporary Spanish-speaking Americas' history, politics, society and culture in national, continental and global contexts. Students learn critical skills that allow them to identify major contemporary issues that shape present-day Latin American society. Students develop critical thinking and scholarly writing skills relevant to the multidisciplinary nature of the subject via the writing of an extensive literature review and a research essay.

98725 Dissertation in Health Research 1
12cp
Postgraduate
This subject facilitates an effective learning contract between the student and appointed supervisor. This learning contract forms the basis of students' framework of study as they plan to undertake the Health Research dissertation.

Typical availability
Autumn semester, City campus

98726 Dissertation in Health Research 2
12cp
Postgraduate
This subject facilitates an effective learning contract between the student and appointed supervisor. This learning contract forms the basis of students' framework of study as they plan to undertake the health research dissertation.

Typical availability
Spring semester, City campus

98727 Quality Use of Medicines in Advanced Practice
6cp
For subject description, contact UTS: Health.

98728 Leadership, Accountability and Role Development in Advanced Practice
6cp
For subject description, contact UTS: Health.

99201 Global Histories
8cp; 3hpw
Undergraduate
This subject introduces students to the main concepts of globalisation and to the historical development of different kinds of globalisation through familiar commodities such as food, drawing on examples from the everyday lives of people in Sydney. The processes and outcomes of globalisation are examined and discussed by way of case studies in lectures and in student research projects. Skills developed include researching literature in the field of global studies, observation research methods, small group work and written and oral presentation of research.

Typical availability
Autumn semester, City campus

First-year experience videos
View commentary from students and academics about this first-year subject at:
- Student video: www.youtube.com/user/utschannel#p/u/12/w8NOvz8vrRo
- Academic video: www.youtube.com/user/utschannel#p/u/6/-leUzZ55UBI

99202 Global Work
8cp; 3hpw plus one week participating on a work-based project; availability: not offered to exchange and study abroad students
Requisite(s): 99201 Global Histories
There are also course requisites for this subject. See access conditions.
Undergraduate
The global movement of people, ideas and capital has had a profound impact on what kind of work people do, how they do it, where they work and who they work with; work has been globalised. This subject introduces students to key ideas that help in understanding what this means for people, communities and economies. Topics covered include the impact of the global movement of people through short and long-term migration and travel on work; the impact of information technologies on the global spread of work practices and work organisations; and the challenges of reconciling local conditions with the expectations and demands of global production networks. The subject includes the opportunity to examine globalisation at work through a work-based project and to use the theoretical perspectives introduced in the subject to explore the way globalisation is shaping working practice. Skills developed include applying theories of globalisation to concrete issues in workplaces, observation research methods, engaging with industry, and written and oral communication.

Typical availability
Autumn semester, City campus

99203 Global Knowledges
8cp; 3hpw; availability: not offered to exchange and study abroad students
Requisite(s): 99201 Global Histories
There are also course requisites for this subject. See access conditions.
Undergraduate
Our world views define and shape the world ‘as we know it’. This subject introduces different ways of seeing the world, charting how resulting world views shape what we know, and how we relate to it. Assumptions about globalisation produce specific forms of knowledge and data, often framed as ‘global indicators’. The resulting global knowledges are produced and situated, whether in dominant or marginalised contexts and traditions. The subject draws on accounts of dominant, alternate and parallel globalities, using both Southern and Northern theory, to analyse, compare, critique and evaluate these perspectives.

Typical availability
Spring semester, City campus

99204 Global Governance
8cp; 3hpw; availability: not offered to exchange and study abroad students
Requisite(s): 99203 Global Knowledges AND 99202 Global Work
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject allows students to consider ways of governing problems in the global sphere (e.g. climate change, trade, peacekeeping). International institutions responsible for managing global problems are examined in terms of their structures, capacities, and ways different interests and concerns are represented (or not) in their processes and outcomes. Students research the players in global governance, analyse complex governance frameworks and develop an understanding of different interests in global issues. Through engagement in debates, simulations and reports, students develop their research, analysis and communication skills.

Typical availability
Spring semester, City campus

In the requisites, a lower case ‘c’ after the subject code indicates that the subject is a corequisite.
99205 Global Work Project
8cp; distance, work placement and UTSOnline; availability: not offered to exchange and study abroad students
Requisite(s): 99204 Global Governance
There are also course requisites for this subject. See access conditions.
Undergraduate
This subject allows students to undertake a substantial work placement, either locally or overseas, in an organisation with global connections, and in a discipline and employment area related to their Global Studies major. Students independently research the global aspects of work in the organisation in which they are placed. Skills developed include: researching global phenomena as they manifest in professional practice, building research informed arguments, reflecting critically on practice and work organisations, communicating and learning online, and presenting research findings using experiential learning and theory informed critique.

Typical availability
Autumn semester, distance mode

99206 Global Problem Solving
8cp; 3hpw; availability: not offered to exchange and study abroad students
Requisite(s): 99205 Global Work Project
There are also course requisites for this subject. See access conditions.
Undergraduate
In this subject students tackle a real-world global problem for an external organisation. Learning is done in seminars where students focus on solutions to the problem in small groups, utilising approaches from their majors. At the end of the semester students make written and oral presentations of their solutions to the external organisation. Skills developed include combining knowledge from global studies with knowledge from majors, ability to collaborate across disciplines, engaging with external organisations, independent and collaborative research on global phenomena, teamwork, and oral and written presentation.

Typical availability
Spring semester, City campus

99567 Introduction to Chinese Herbal Medicine
6cp; 6hpw
Requisite(s): 99639 Chinese Medicine Foundations 1 OR 99665 Chinese Medicine Foundations 1
This subject provides introductory information on the basic properties and functions of Chinese herbs. It forms an essential foundation for the understanding of Chinese herbal formulae and the pharmacology of Chinese herbs. Students are encouraged to create a small herbarium of selected herbs.

Typical availability
Spring semester, City campus

99584 Clinical Features of Disease
6cp; 4hpw
Requisite(s): 91530 Pathophysiology and Pharmacology 2
These requisites may not apply to students in certain courses.
There are also course requisites for this subject. See access conditions.
This subject builds on the theoretical material offered in anatomy and physiology subjects. It also develops the student’s ability to differentiate, in a TCM setting, those conditions that should be referred to a medical practitioner or other health care professional.

Typical availability
Autumn semester, City campus

99618 Chinese Diagnostic System 1
6cp; 5hpw
Requisite(s): 99640 Chinese Medicine Foundations 2 OR 99666 Chinese Medicine Foundations 2
This subject provides a deeper understanding of the objectives, application and therapeutic conclusions inherent in the traditional Chinese diagnostic system. It provides practical workshops in advanced pulse diagnosis that complements students’ theoretical work.

Typical availability
Autumn semester, City campus

99621 Chinese Diagnostic System 2
6cp; 6hpw
Requisite(s): 99618 Chinese Diagnostic System 1
This subject contributes a large component of the essential skills and knowledge required for traditional Chinese diagnosis. The subject and workshops underpin not only the clinical experiences of the student but also the differentiation of disease states. This subject hones the essential skills and knowledge of Zangfu and external pathogen diagnostics. Students are expected to work closely together in group situations online and in class time to develop their diagnostic skills.

Typical availability
Spring semester, City campus

99630 Clinical Practice 1 (TCM)
12cp; 250 hours of supervised clinical practice and development of clinical reasoning skills
Requisite(s): 99667 Clinic Level 6 AND 99627 Clinical Practicum (Therapy and Diagnosis)
In this subject the student experiences the full range of practitioner responsibilities under the supervision of a clinical manager. This area of training is accomplished in the outpatient clinics of the College of Traditional Chinese Medicine (TCM), which provide low-cost TCM services to the public. Students also have the option of undertaking a TCM internship in China with a UTS-approved institution. Students engage in a series of tutor and peer reviewed case analyses and develop a learning contract in a specialty area of TCM of their own choosing.

Typical availability
Autumn semester, City campus

99631 Clinical Practice 2 (TCM)
12cp; 2hpw, 150 treatments, 375 supervised clinical hours (in Stage 8, Year 4)
Requisite(s): 99667 Clinic Level 6 AND 99627 Clinical Practicum (Therapy and Diagnosis)
In this subject, students experience the full range of practitioner responsibilities under the supervision of a clinical manager. This area of training is accomplished in the outpatient clinics of the UTS College of Traditional Chinese Medicine, which provide low-cost traditional Chinese medicine (TCM) services to the public. Students also have the option of undertaking a TCM internship in China with a UTS-approved institution.

This subject replicates the previous semester internship subject (99630 Clinical Practice 1) and students again engage in a series of tutor and peer reviewed case analyses and develop a second learning contract in a specialty area of TCM of their own choosing.

Typical availability
Autumn semester, City campus

99636 Essentials of Pathophysiology
6cp; 12 weeks, 5hpw
This subject is a study of essential elements of the disease process studied within the context of some commonly occurring disorders. It serves as an introduction of physiological processes in the disease state. Systems studied include cardiovascular, endocrine, muscular-skeletal, gastrointestinal, kidney and body fluid, respiratory, immune, reproductive, cancer, and nervous systems. The subject promotes an understanding of health issues which can be used in many health settings.

Typical availability
Spring semester, City campus
99641 Point Location and Acupuncture Anatomy
6cp; Shpw
This is a workshop-based subject dealing with the location, depth, action, special precautions and contra-indications of the major acupuncture points used in clinical practice.

- Module 1 (Point Location) provides practical workshops to accurately locate the 365 major acupuncture points. This module looks at the fundamental actions of the major acupuncture points, complementing the work undertaken in Chinese Medicine Foundations 1.
- Module 2 (Anatomy) covers the anatomy that underpins the accurate location of points and their safe needling. It defines major anatomical landmarks used in point location, closely examines acupuncture point substructures and provides a basis for understanding precautions associated with acupuncture and its safe practice.

Typical availability
Autumn semester, City campus

99644 Clinic Level 3 and Acupuncture Techniques 2
6cp; clinical assistance: 40hrs, practicums: 13 weeks x 4hpw
Requisites(s): 99643 Clinic Level 2 and 99641 Point Location and Acupuncture Anatomy
Approximately 30 per cent of the undergraduate training program is devoted to gaining clinical experience in preparation for becoming a qualified traditional Chinese medicine (TCM) practitioner. The subject is split into three modules:

- Module 1 (Clinic) builds on previous clinical training subjects and acquaints students with the skills and duties required by a student–practitioner working in the University's outpatient clinics. Students must satisfactorily complete requisite clinical hours.
- Module 2 (Acupuncture) introduces basic theoretical constructs for the application of various acupuncture techniques. The practical workshops are devoted to revision of point location and the extension of student knowledge of point function, Jing Lou pathways, point interactions and needle depths. Practical needling experience is introduced using basic/intermediate needling techniques. Participation in needling workshops is compulsory.
- Module 3 (Tui Na, Chinese Remedial Massage) builds upon the student's introduction to Chinese massage in Clinical Theory and Clinic Level 1. A large amount of clinical practice requires the differentiation and treatment of musculoskeletal dysfunctions. Accordingly, this module further develops the participant's manual therapy skills and their application within a Chinese medicine clinical context. This module forms the basis of continuing clinical studies in Clinic Level 4. Participation in massage workshops is compulsory.

Typical availability
Autumn semester, City campus

99645 Clinic Level 4 and Acupuncture Techniques 3
6cp; 6hpw; workshops, tutorials, lectures; clinical assistant level 4: 40hrs [Stage 4, Year 2]
Requisites(s): 99644c Clinic Level 3 and Acupuncture Techniques 2
Approximately 30 per cent of the undergraduate training program is devoted to gaining clinical experience in preparation for becoming a qualified traditional Chinese medicine (TCM) practitioner. This subject is split into three modules:

- Module 1 (Clinic) builds on previous clinical training subjects and acquaints students with the skills and duties required of a student practitioner working in the University's outpatient clinics. Students must satisfactorily complete requisite clinical hours, case reports and competency assessments.
- Module 2 (Acupuncture Techniques III) extends on the basic theoretical constructs for the application of various acupuncture techniques introduced in Clinic Level 3 and Acupuncture Techniques 2.
- Module 3 (TCM Orthopaedic assessment and treatment (Tui Na)) builds upon the participant's introduction to Chinese remedial massage in Clinic Level 3: TCM Manual Therapy 1. This component covers integrative tuina techniques with a focus on the orthopaedic assessment, developing further diagnostic procedures for identifying regional musculoskeletal dysfunction and applying findings to planning and applying an integrative treatment approach using a range of modalities. The subject builds upon basic diagnostic concepts of the four methods of diagnosis (Si Zhen) in conjunction with biomedical principles involved in orthopaedic assessment.

Upon completion of the subject, participants have the basic knowledge necessary to undertake supervised clinical practice in the UTS Chinese Medicine Remedial Massage (Tuina) Clinic. Knowledge gained from the subject is necessary for further development of a clinical application of an integrative practice scope.

Typical availability
Spring semester, City campus

99646 Clinic Level 5 and Acupuncture Microsystems
6cp; clinical assistance: 60hrs, advanced needle techniques: 12 weeks x Shpw
Requisites(s): 99645 Clinic Level 4 and Acupuncture Techniques 3
Approximately 30 per cent of the undergraduate training program is devoted to gaining clinical experience in preparation for becoming a qualified traditional Chinese medicine practitioner. The subject is split into two modules:

- Module 1: Clinical Assistant Level 5 builds on the first two years of theoretical, practical and clinical training and acquaints students with skills and duties required by a final year student–practitioner working in the University's outpatient clinic. Clinical training is continued through the clinical program of the TCM course.
- Module 2: Microsystems and Advanced Treatment Techniques covers special areas of microsystems acupuncture, which has a wide range of applications in the general practice of acupuncture. The theoretical information of general acupuncture and microsystems acupuncture is applied and practised in the advanced treatment techniques practicum/workshop.

Typical availability
Autumn semester, City campus

99647 Clinic Level 6
6cp; 2hpw; workshops, tutorials and planning sessions; Clinical Assistant Level 6: 70 hours [Stage 6, Year 3]
Requisites(s): 99646c Clinic Level 5 and Acupuncture Microsystems
This subject is divided into three modules

Module 1: Clinical Assistant Level 6: Approximately 30 per cent of the undergraduate training program is devoted to clinical experience and preparation for becoming a qualified traditional Chinese medicine practitioner. This module builds on the first two-and-a-half years of theoretical, practical and clinical training and develops student skills and professional understanding of clinical practice as exemplified in the University's outpatient clinic.

Module 2: Internship training: Students engage in a series of group exercises to prepare a fourth clinical management plan. This plan covers all aspects of daily management and promotion of their future internship clinic. Students engage in a series of reflective exercises dealing with the legal and ethical issues they may face during their internship clinic and upon graduation. They must also undertake the preparation of a learning contract in an area of clinical specialisation of their own choosing that they execute during their fourth-year clinics.

Module 3: Disease States: This subject module contributes to the development of an evidenced-based approach to the clinical practice of Chinese medicine (CM). The subject module develops clinical understanding of disease and its treatment through the integration of theories and knowledge from Chinese medicine with biomedical and western medicine understandings of diseases and their processes. A number of diseases are covered from traumatology and paediatric CM clinical areas.

Preventative health measures and strategies for health maintenance are additionally addressed in this subject module. These are discussed in the context of Yang Sheng, the CM clinical area of practice relating to health preservation and enhancement including understanding and application of dietary principles. The subject module links into clinical practicum and clinic internship subjects where students are required to put into practice and integrate their learning within a clinical context.

Typical availability
Spring semester, City campus

Note(s)
This subject replaces the Spring semester of 99624 Clinical Theory and Clinic Level 3.
99650 Pharmacology of Chinese Herbal Medicine
6cp; 4hpw
Requisite(s): 99567 Introduction to Chinese Herbal Medicine
The subject utilises the latest research on Chinese herbal medicines. Students are provided with up-to-date scientific knowledge of commonly used traditional Chinese medicinal herbs, including the botanical description, active constituents, pharmacological actions, therapeutic uses, adverse effects, toxicity and Therapeutic Goods Administration (TGA) regulatory status (if applicable). The interactions between Chinese herbs and orthodox drugs is also discussed.

Typical availability
Autumn semester, City campus

99651 Chinese Herbal Formula 1
6cp; 6hpw
Requisite(s): 99567 Introduction to Chinese Herbal Medicine AND 99621 Chinese Diagnostic System 2
Differentiating patterns and deciding treatment strategies (Bian Zheng Lun Zhi) are the traditional processes in treating disease in traditional Chinese medicine (TCM). Chinese herbal formulas are specific combination of various single herbs that provide a standard strategy for deciding treatment.
This subject consists of the study of formulas and strategies in treating diseases according to TCM patterns. The core of the subject is in understanding how particular combinations of single herbs in the formulas work effectively to treat disease. The focus of this subject is in analysing the relationship of patterns (traditional descriptions of pathological conditions in Chinese medicine) and the strategies underlying the formulas that treat them.
The subject includes topics of standard treatment strategies in Chinese herbal formulas, relationship of formulas to TCM patterns, and detailed analysis of the structure of the formulas in accordance to the pathomechanism (Bing Ji) of TCM patterns and their clinical signs and symptoms.

Typical availability
Spring semester, City campus

99652 Chinese Herbal Formula 2
6cp; 6hpw
Requisite(s): 99651 Chinese Herbal Formula 1
Chinese herbal medicine utilises herbal combinations to treat illness. This subject follows Chinese Herbal Formula 1 and provides detailed information on Chinese herbal formulae for treating diseases. In this subject, the major herbal formulae are evaluated together with their appropriate application. Students are encouraged to discriminate between various treatment strategies in accordance with differential diagnosis of TCM patterns.

Typical availability
Autumn semester, City campus

99653 Health Science for Traditional Chinese Medicine 3
6cp; 5hpw
Requisite(s): 99648 Health Science for Traditional Chinese Medicine 1 OR 99649 Health Science for Traditional Chinese Medicine 2
This subject has been designed to develop an understanding of the microbiology and pathology of the nervous system and the anatomy, physiology, microbiology and pathophysiology of the endocrine systems. Students also study specific drugs used in the treatment of the systems studied. Diseases acquired parentally either by trauma, insect bite or other procedures are also discussed.

Typical availability
Autumn semester, City campus

99654 Health Science for Traditional Chinese Medicine 4
6cp; 5hpw for 10 weeks
Requisite(s): 99648 Health Science for Traditional Chinese Medicine 1 OR 99649 Health Science for Traditional Chinese Medicine 2
This subject has been designed to develop an understanding of the anatomy, physiology, microbiology and pathophysiology of the integumentary, the immune, the nervous and the haematological systems and the drugs used in the treatment of the systems studied. Students study normal and abnormal cell development and cancer diagnosis and grading. Pregnancy, development and some cancers of the reproductive system are studied. Students study the principles of anaesthesia and analgesia, interactions of drugs both beneficial and adverse and problems of toxicity, tolerance and addiction.

Typical availability
Spring semester, City campus

99656 Disease States for Traditional Chinese Medicine 1
6cp; 5hpw
Requisite(s): 99652 Chinese Herbal Formula 2 AND 99584 Clinical Features of Disease
In this subject students integrate their knowledge of Western and Chinese medicine for the most common diseases in traditional Chinese medicine (TCM) internal medicine and paediatrics. The subject focuses on developing diagnostic theory and skills, TCM pattern differentiation, and familiarity with current therapy in Western and Chinese medicine for common diseases.

Typical availability
Spring semester, City campus

99657 Disease States for Traditional Chinese Medicine 2
6cp; 5hpw
Requisite(s): 99652 Chinese Herbal Formula 2 AND 99584 Clinical Features of Disease
This subject moves its emphasis from the learning of traditional Chinese medicine (TCM) to the clinical practice of TCM. After determining that TCM is appropriate to the patient's condition, students must then differentiate the pattern of disharmony as identified in TCM, decide on the treatment principle and devise a course of treatment.

Typical availability
Autumn semester, City campus

99658 Clinical Practice 3
4cp; 2hpw, 50 treatments, 125 supervised clinical hours (Stage 8, Year 4)
Requisite(s): 99647 Clinic Level 6 AND 99627 Clinical Practicum (Therapy and Diagnosis)
In this subject the student experiences the full range of practitioner responsibilities under the supervision of a clinical manager. This area of training is accomplished in the out-patient clinics of the College of Traditional Chinese Medicine (TCM) which provide low cost TCM services to the public. Students engage in a series of tutor and peer reviewed case analyses and develop an annotated bibliography in a specialty area of TCM of their own choosing.
Students who undertake the option of an overseas clinical placement in China or Korea with a UTS approved institution must undertake this subject instead of 99631 Clinical Practice 2.

Typical availability
Spring semester, City campus

99665 Chinese Medicine Foundations 1
6cp; 4hpw
This subject introduces Chinese medicine's basic theoretical concepts. A broad foundation is provided for subject areas that are built on throughout the degree. Subject areas include the traditional Chinese medical view of health, disease aetiology, diagnosis and principles of treatment, traditional physiology (the 12 organs and 14 main channels), terminology issues, philosophical traditions and the Huangdi Neijing Suwen. The basic theories presented in this subject have a continuing and progressive application in all aspects of traditional Chinese medicine.

Typical availability
Autumn semester, City campus

99666 Chinese Medicine Foundations 2
6cp; 4hpw
Requisite(s): 99665 Chinese Medicine Foundations 1
This subject extends students’ knowledge of Chinese medicine’s fundamental substances and their physiology and the channel system, its components and functions. It builds on stage 1 subjects, especially with regard to physiological substances and systems and general patterns of dysfunction. The principles of Chinese dietetics are
explore and the Neijing Lingshu introduced. Basic dietary principles and acupuncture point functions and indications are applied to basic patterns of disorder. The subject provides an understanding of how to regulate internal systems and utilise channel physiology in the clinical practice of Chinese medicine.

**Typical availability**
Spring semester, City campus

**99667 Clinical Theory and Clinic Level 1**
6cp; 5hpw
Requisite[s]: 9965c Chinese Medicine Foundations 1 AND 99641c Point Location and Acupuncture Anatomy
This subject comprises a series of lectures, workshops and clinical practicum. The subject content has been organised into three modules Module 1: Clinical Theory covers UTS clinical protocols for attending the clinic as both a student and intern practitioner (when in fourth year). Topics include treatment modality precautions and contraindications, introductory ethics, infection control procedures and principles of communication. There is a series of workshops associated with the module and these are used to introduce the learner to tuina, cupping and gau sha treatment modalities. In addition, the workshops are used to put into practice information from the lectures (i.e. practice-based learning.) Module 2: Pulse Diagnosis: Theory and Practice introduces the techniques used for pulse assessment and provides information on assessing some basic pulse parameters, including their associated diagnostic meaning. It comprises a mixture of lectures and workshops and serves as an introduction to further advanced techniques covered in the second year of the degree program. Module 3: Clinic Practicum is the first of several undertaken in a real clinical environment. Clinic practicum for this module focuses primarily on observation, learning clinical processes and health information systems. Students may be required to assist the practitioner, and eventually, expected to undertake clinical assessments of patients and their treatments (under supervision) in the third and fourth year of their studies.

**Typical availability**
Autumn semester, City campus

**99668 Clinic Level 2 and Acupuncture Techniques 1**
6cp; 4hpw (Stage 2, Year 1)
Requisite[s]: 99667 Clinical Theory and Clinic Level 1 AND 99641c Point Location and Acupuncture Anatomy
Approximately 30 per cent of the undergraduate training program is devoted to gaining clinical experience in preparation for becoming a qualified traditional Chinese medicine (TCM) practitioner. The subject is split into two modules: Module 1 builds on previous clinical training subjects and acquaints students with the skills and duties required by a ‘student practitioner’ working in the University’s outpatient clinics. Students must satisfactorily complete requisite clinical hours. Module 2 introduces basic theoretical constructs for the application of various acupuncture techniques. Practical needling experience is introduced within the workshops. Participation in needling workshops is compulsory. Students are also introduced to the full set of Jing Luo pathways.

**Typical availability**
Spring semester, City campus

**99669 Clinical Practice 3**
6cp
Requisite[s]: 99647 Clinic Level 6
There are also course requisites for this subject. See access conditions.

For subject description, contact UTS: Science.

**99670 Clinical Practice 4**
6cp
Requisite[s]: 99647 Clinic Level 6
There are also course requisites for this subject. See access conditions.

For subject description, contact UTS: Science.
ALPHABETICAL LIST OF SUBJECTS

The subject names and subject codes for all subjects are listed below, alphabetically ordered by subject name. The subject descriptions for these subjects are numerically ordered by subject code in Subjects (see pages 680–1039).

- .NET Application Development 32998 Advanced Mechanics 68414
- .NET Enterprise Development 32013 Advanced Mediation 78127
- 2D Digital Animation 89204 Advanced Mediation 77746
- 3D Animation 32543 Advanced Microeconomics 23907
- 3D Computer Animation 31241 Advanced Modelmaking 11265
- 3D Digital Animation 1 89202 Advanced Nanomaterials 57172
- 3D Digital Animation 2 89203 Advanced Nanomaterials 68002
- 3G Mobile Communication Systems 49110 Advanced Organisation and Management Theorising 21909
- A Genealogy of Digital Photography 88008 Advanced Physics 68001
- Aboriginal and Torres Strait Islander: Women and Babies 92621 Advanced Post Production 57173
- Aboriginal Cultures 013982 Advanced Procurement Methods 16257
- Aboriginal Social and Political History 013082 Advanced Production Design 88603
- Aboriginal Studies Project 013081 Advanced Project Management 32601
- Academic Literacies in TESOL and Applied Linguistics 013983 Advanced Property Development 17518
- Accountability in Nursing Practice 92329 Advanced Remedies 56021
- Accountability of Small Business Enterprises 22573 Advanced Research Methods for Leisure, Sport and Tourism 47941
- Accounting and Business Management 16264 Advanced Revenue Law 76016
- Accounting and ERP 22759 Advanced Robotics 49274
- Accounting for Business Combinations 22320 Advanced Routing Principles 32009
- Accounting for Business Decisions A 22107 Advanced Screenwriting 57101
- Accounting for Business Decisions B 22207 Advanced Software Modelling 33986
- Accounting for Insolvency 22610 Advanced Soil Mechanics and Foundation Design 49254
- Accounting for Managerial Decisions 22747 Advanced Stochastic Processes 35466
- Accounting for Overseas Transactions 22309 Advanced Taxation Law 79606
- Accounting for Public, Leisure and Community Organisation 22771 Advanced Topics in Computer Networks 39189
- Accounting Information for Managers 22814 Advanced Urbanisation 16335
- Accounting Information Systems 22708 Advances in Requirements Engineering 32550
- Accounting Information Systems 22605 Advertising Campaign Practice 58129
- Accounting Research and Consulting Skills 22901 Advertising Practice 59330
- Accounting Standards and Regulations 22420 Advertising Research 24510
- Administrative Law 70617 Advertising Strategies 59333
- Adult Education Policy in Context 013973 Advocacy 75413
- Adult Education: History, Policy and Context 013125 Advocacy and Social Change 21040
- Adult Education: Past, Present, Future 013168 Aerospace Design Processes 48274
- Adult Learning and Program Development 013142 Aerospace Operations: Overview of the Aviation Industry 48274
- Adult Learning in Context 013953 Aesthetics 58212
- Advanced Analogue Model Making Intensive 88619 Aesthetics in Industrial Design 84110
- Advanced Analysis 35322 Agile Method Engineering 32106
- Advanced Architectural Construction 11233 Air and Noise Pollution 49049
- Advanced Assessment and Diagnosis 92608 Airline Operations 48272
- Advanced Building Regulation 15615 Airlines and Transportation Management 27647
- Advanced Building Systems 11262 Alpine and Lowland Ecology 91163
- Advanced CAD Intensive 88620 Alternative Perspectives in Contemporary Economics 23623
- Advanced Calculus 35232 An Introduction to Patternmaking and Construction 83881
- Advanced Clinical Practice 92894 Analogue Electronics 48551
- Advanced Commercial Law 79018 Analysing Professional Practice 016715
- Advanced Communication Skills in Science 60901 Analysis of Human Motion 27174
- Advanced Construction Technologies 16077 Analysis of Motor Control 27647
- Advanced Contracts 76047 Analysis of the Olympic Games 27764
- Advanced Control 48580 Analytical Biochemistry 91326
- Advanced Corporate Finance 25924 Analytical Chemistry 1 65306
- Advanced Criminal Law 76037 Analytical Chemistry 2 65409
- Advanced Data Mining Algorithms 32513 Analytical Chemistry 3 65606
- Advanced Database 32113 Analytical Capstone Project 41004
- Advanced Design for 2D Animation 88408 Analytics Capstone Project B 31243
- Advanced Development Assessment 15614 Anatomical Pathology 91402
- Advanced Digital Systems 48451 Anatomy and Physiology: Pregnancy and Childbirth 92272
- Advanced Engineering Computing 48371 Animal Behaviour and Physiology 91363
- Advanced Fashion and Textile Techniques 83568 Animal Law and Policy in Australia 76033
- Advanced Financial Planning 25208 Animal Law and Policy in Australia 78219
- Advanced Flow Modelling 49312 Animal Law and Policy in Australia 78219
- Advanced Haematology 91358 Animation Concepts Seminar 57130
- Advanced Health Services Planning 92295 Animation Genres Seminar 89201
- Advanced Image Synthesis Techniques 32544 Animation Project 89990
- Advanced Immunology 91359 Animation Project A 89991
- Advanced Instruments 25838 Animation Project B 89992
- Advanced Internet Programming 32549 Animation Studio: Advanced Animation Practice 82710
- Advanced Internet Programming 31242 Animation Studio: Animation Industry Project 82620
- Advanced Macroeconomics 23917 Animation Studio: Animation Practice 88821
- Advanced Management and Organisation Research Methods 21908 Animation Studio: Animation Project Pre-production 82711
- Advanced Manufacturing 48663 Animation Studio: Animation Project / Production 82800
- Advanced Marketing Strategies 24808 Animation Studio: Foundations in Animation 82120
- Advanced Mathematics and Physics 68038 Animation Studio: Foundations in Animation Language 82120
- Animation Studio: Narrative Experiments 82811
<table>
<thead>
<tr>
<th>Subject</th>
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<td>91357</td>
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<td>22797</td>
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<td>Financial Services and Products</td>
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<td>78227</td>
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<td>Financial Statement Analysis and Valuation</td>
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<td>83882</td>
</tr>
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<td>92271</td>
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<td>Foundations of Perioperative Nursing</td>
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<td>Foundations of Physics</td>
<td>68101</td>
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<td>Francophone Cultures of Consumption</td>
<td>97409</td>
</tr>
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<td>25300</td>
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<td>Fundamentals of Mechanical Engineering</td>
<td>48620</td>
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<td>Fundamentals of Mental Health Nursing (Enrolled Nurse Entry 1)</td>
<td>92025</td>
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<td>Fundamentals of Mental Health Nursing (Graduate Entry)</td>
<td>92015</td>
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<td>91993</td>
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<td>92760</td>
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<td>88931</td>
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<td>Furniture Production and Materials</td>
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<td>88951</td>
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<td>32004</td>
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<td>77701</td>
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Vis Arbitral Moot 76901
Visual Arts Education 012220
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Visual Arts Teaching Methods 2 013062
Visual Arts Teaching Methods 3 013068
Visual Arts Teaching Methods 4 013074
Visual Information Project 88913
Visualisation and Sonification Studio 50847
Visualising Research 87773
Vocational Competencies 1 15606
Vocational Competencies 2 15607
Volunteer Management 21817
WANs and Virtual LANs 31283
WANs and VLANs 32521
Waste and Pollution Management 49123
Water and Environmental Design 48881
Water Quality Management 49124
Water Quantity and Quality Processes 48372
Water Supply and Wastewater Engineering 48840
Water Supply and Wastewater Management 49105
Wealth Management 25576
Wearable Media and e-Fashion 50833
Web Services Development 31284
Web Services Technologies and Applications 32525
Web Systems 31268
Web Technologies 49262
Wickedness and Vice 78039
Wildlife Ecology 91116
Wind Engineering 49135
Wireless Networking Technologies 49048
Wireless Sensor Networks 49227
Wireless Sensor Networks: Technology and Applications 48033
Women's Collection 83886
Work and Learning 013123
Work and People 013124
Workplace Dispute Resolution 77867
Workplace Dispute Resolution 78176
Workplace Ecology 15321
Workshops for Practice Readiness (Graduate Entry) 92016
Workshops for Practice Readiness 1 92327
Workshops for Practice Readiness 2 92328
World Trade Law 76013
World Trade Organisation Law and Practice 77976
Writing for the Screen 57171
Writing for the Screen 57142
Writing Laboratory 58313
Writing Poetry 57133
Writing Project 1 57188
Writing Project 2 57189
Writing Seminar 57190
Writing Studies Honours Seminar 55066
Writing Television Drama 57154
Writing Through Genre 58902
ALPHABETICAL LIST OF MAJORS

The major names and major codes for all majors are listed below, alphabetically ordered by major name. The completion requirements for these majors are in Study package directory: Majors, numerically ordered by major code (see pages 579–633).

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# ALPHABETICAL LIST OF SUB-MAJORS

The sub-major names and sub-major codes for all sub-majors are listed below, alphabetically ordered by sub-major name. The completion requirements for these sub-majors are in Study package directory: Sub-majors, numerically ordered by sub-major code (see pages 633–649).

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**UTS: Handbook 2013**

Page 1061
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<td>SMJ01031</td>
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<td>SMJ08204</td>
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<td>Sustainable Energy Systems</td>
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<td>Transnational Studies</td>
<td>SMJ09048</td>
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<td>Value Creation in Services</td>
<td>SMJ08210</td>
</tr>
<tr>
<td>VFX Design</td>
<td>SMJ10047</td>
</tr>
<tr>
<td>Writing and Cultural Studies</td>
<td>SMJ10041</td>
</tr>
</tbody>
</table>
UTS CONTACTS AND LOCATIONS

CONTACTS

University of Technology, Sydney
telephone: +61 2 9514 2000
fax: +61 2 9514 1551
Service Desk: https://servicedesk.uts.edu.au
Ask UTS: www.ask.uts.edu.au
www.uts.edu.au

Postal addresses
All campuses
PO Box 123
Broadway NSW 2007
Australia

Kuring-gai campus
PO Box 222
Lindfield NSW 2070
Australia
For course inquiries, contact a UTS Student Centre (see page 20).

LOCATIONS

City campus

Broadway
- CB01, Tower, Building 1
  15 Broadway, Ultimo
- CB02, Building 2
  15 Broadway, Ultimo
- CB03, Bon Marché, Building 3
  755 Harris Street, Ultimo
- CB04, Building 4
  745 Harris Street and 95 Thomas Street, Ultimo
- CB04B Multi-Purpose Sports Hall
  745 Harris Street and 95 Thomas Street, Ultimo
- CB06, Peter Johnson Building,
  Building 6
  702–730 Harris Street, Ultimo
- CB08, The Terraces
  9–13 Broadway, Ultimo
- CB10, Building 10
  235 Jones Street, Ultimo

Haymarket
- CM05A–CM05D, Building 5
  1–59 Quay Street, Haymarket

Blackfriars
- CC01–CC07
  2–14 Blackfriars Street, Chippendale

Harris Street
- CH01, Mary Anne House
  645 Harris Street, Ultimo

McKee Street
- CK01, Magic Pudding Child Care
  1 McKee Street, Ultimo

Quay Street
- CQ01
  10 Quay Street, Haymarket

Student housing
- CA01, Geegal
  8–84 Ivy Street, Chippendale
- CA02, Bulga Ngarra
  23–27 Mountain Street, Ultimo
- CA03, Gumal Ngarang
  161 Broadway, Ultimo
- CA06, Yura Mudang
  702–730 Harris Street, Ultimo

Kuring-gai campus
- KG01–KG08
  Eton Rd, Lindfield
- KG05
  UTS Northshore Conference Centre

UTS Haberfield Rowing Club
- HA01
  Dobroyd Parade
  Haberfield NSW 2045

Psychology Unit, St Leonards
- SL03
  174 Pacific Highway
  St Leonards NSW 2065

Other location
- ST01–ST02
  Alderley Cottage
  Lot 161894
  The Bucketts Way
  Booral NSW 2425

MAPS

UTS campus maps are available at:
http://datasearch.uts.edu.au/about/mapsdirections/map.cfm
Bachelor of Forensic Science in Applied Chemistry (C10244v1), 251
Bachelor of Global Studies (C10264v1), 278
Bachelor of Health Science in Traditional Chinese Medicine (C10186v7), 218
Bachelor of Health Science in Traditional Chinese Medicine Bachelor of Arts in Information Studies (C10164v5), 209
Bachelor of Human Movement (C10300v1), 288
Bachelor of Human Movement Bachelor of Arts in International Studies (C10302v1), 290
Bachelor of Information Technology (C10143v5), 192
Bachelor of Laws (C10124v6), 179
Bachelor of Laws Bachelor of Arts in International Studies (C10129v5), 187
Bachelor of Management (Honours) in Events and Leisure (C09005v6), 109
Bachelor of Management (Honours) in Sport and Exercise (C09008v1), 122
Bachelor of Management (Honours) in Tourism (C09007v4), 109
Bachelor of Management in Events and Leisure (C10039v10), 135
Bachelor of Management in Events and Leisure Bachelor of Arts in International Studies (C10045v9), 138
Bachelor of Management in Sport and Exercise (C10301v1), 289
Bachelor of Management in Sport and Exercise Bachelor of Arts in International Studies (C10303v1), 291
Bachelor of Management in Tourism (C10400v8), 136
Bachelor of Management in Tourism and Hospitality (C10048v6), 139
Bachelor of Management in Tourism Bachelor of Arts in International Studies (C10044v7), 137
Bachelor of Mathematics and Computing Bachelor of Arts in Information Technology (C10158v4), 201
Bachelor of Mathematics and Computing Bachelor of Arts in Information Technologies (C10122v2), 229
Bachelor of Mathematics and Finance Bachelor of Arts in International Studies (C10155v8), 199
Bachelor of Mathematics and Finance Bachelor of Arts in Information Technology (C10157v5), 200
Bachelor of Medical Science Bachelor of Business (C10163v4), 208
Bachelor of Medical Science Bachelor of Laws (C10131v5), 189
Bachelor of Midwifery Bachelor of Arts in International Studies (C10122v2), 230
Bachelor of Midwifery Bachelor of Arts in Information Technology (C10122v1), 119
Bachelor of Nursing Bachelor of Arts in International Studies (C10122v10), 173
Bachelor of Nursing Bachelor of Arts in Information Technology (C09018v5), 111
Bachelor of Nursing Bachelor of Arts in Information Technologies (C10122v6), 178
Bachelor of Property Economics Bachelor of Arts in International Studies (C10011v5), 127
Bachelor of Science Bachelor of Arts in Information Technologies (C10186v7), 126
Bachelor of Science Bachelor of Arts in Information Technologies (C10011v5), 127
Bachelor of Science Bachelor of Arts in Information Technologies (C10026v3), 114
Bachelor of Science Bachelor of Arts in Information Technologies (C09035v4), 116
Bachelor of Science Bachelor of Biomedical Science (C09023v3), 114
Bachelor of Science (Honours) in Environmental Science (C09029v3), 115
Bachelor of Science (Honours) in Information Technology (C09019v4), 111
Bachelor of Science (Honours) in Mathematics (C09020v6), 112
Bachelor of Science (Honours) in Nanotechnology (C09046v2), 117
Bachelor of Science Bachelor of Arts in International Studies (C10243v1), 245
Bachelor of Science Bachelor of Business (C10162v4), 203
Bachelor of Science Bachelor of Arts in Information Technologies (C10227v3), 233
Bachelor of Science in Games Development (C10229v3), 235
Bachelor of Science in Information Technology Bachelor of Arts in International Studies (C10239v1), 238
Bachelor of Science in Information Technology Bachelor of Arts in Information Technologies (C10245v2), 252
Bachelor of Science in Information Technology Diploma in Information Technology Professional Practice (C10152v4), 196
Bachelor of Science in Marine Biology Bachelor of Science (C10228v3), 234
Bachelor of Science in Nanotechnology Bachelor of Arts in International Studies (C10270v1), 282
Bachelor of Teaching in Secondary Education (C08002v1), 468
Beyond UTS International Leadership Development (BUILD) program, 24
Brennan Justice and Leadership program, 24
Bridging courses, 35
C
Campus life, 37
Child care, 37
Co-op Bookshop, 37
Radio 2SER (107.3 FM), 37
Students' Association, 37
UTS Gallery and Art Collection, 37
UTS Union Ltd, 38
Census dates, 22
Centre for Local Government, 30
Centrelink benefits, 32
Chemistry Learning Centre, 36
Child care, 37
Choice blocks, 498
Class attendance, 27
Co-op Bookshop, 37
Commonwealth Higher Education Student Support Number (CHESSN), 32
Commonwealth scholarships, 31
Computing facilities at UTS, 34
Contacts, 186
Contents, 4
Copyright statement, 2
Core subjects, 29
Course and subject fees, 32
Course areas, 20, 49
UTS: Business, 49
UTS: Communication, 53
UTS: Design, Architecture and Building, 57
UTS: Education, 60
UTS: Engineering, 62
UTS: Health, 72
UTS: Information Technology, 81
UTS: International Studies, 87
UTS: Law, 93
UTS: Pharmacy, 101
UTS: Science, 102
Course availability, 28
Course completion and graduation, 23
Course duration and attendance, 27
Attendance modes, 27
Class attendance, 27
Enrolment restrictions, 27
International students, 27
Standard duration, 27
Study load, 27
Teaching periods, 27
Course programs, 29
Course structure, 28
Courses
List of courses by course area, 10
List of courses by faculty, 15
Postgraduate coursework, 300
Postgraduate research, 472
Undergraduate, 108
Understanding courses and subjects, 27
Credit points, 29
Credit recognition, 28
D
Dates
Academic years dates, 45
Principal dates, 40
Diploma in Information Technology Professional Practice (C20049v1), 299
Doctor of Creative Arts (C02020v2), 473
Doctor of Education (C02051v1), 481
Doctor of Education (C02055v1), 485
Doctor of Health Services (C02054v1), 484
Doctor of Juridical Science (C02027v5), 474
Doctor of Midwifery (C02053v1), 483
Doctor of Nursing (C02052v1), 482
Doctor of Philosophy (C02001v2), 472
Doctor of Philosophy (C02018v3), 472
Doctor of Philosophy (C02019v3), 473
Doctor of Philosophy (C02024v3), 474
Master of Sport and Exercise (Research) (C03052v1), 496
Master of Sustainable Futures (Research) (C03032v3), 491
Mathematics and ICT Study Centre, 36
My Student Admin, 21

N
Non-award and cross-institutional study, 22
Non-discriminatory language, 2
NSW child protection legislation, 25

O
Offshore only – Other teaching periods, 48
Offshore only – Other teaching periods, 46
Onshore – Main teaching periods, 45
Onshore – Short teaching periods, 45
Onshore – Short teaching periods, 47
Options lists, 29
OS-HELP, 32
Other costs, 33
Other sources of information, 21

P
Peer-assisted learning, 34
Physics Learning Centre, 36
Postgraduate research, 21
Postgraduate research scholarships, 31
Prizes and awards, 23
Professional recognition, 28

R
Radio 2SER (107.3 FM), 37
Recommended studies, 29
Requisites and anti-requisites, 29
Right to information and privacy, 25

S
SA-HELP, 32
Safety and security, 38
Campus shuttle bus, 38
Emergency procedures, 38
First aid and health service, 38
Hazard, accident/incident reporting, 38
Inquiries, 39
Lost and found, 38
Safe work practices, 38
Security systems, 38
Smoke free environment, 38
Safety, security and sustainability, 38
Safety and security, 38
Sustainability, 39
Scholarships, 31
Commonwealth scholarships, 31
Faculty-specific scholarships, 31
Postgraduate research scholarships, 31
Scholarships for international students, 31
UTS Diversity Access Scholarships, 31
Vice-Chancellor’s scholarships, 31
Scholarships for international students, 31
Scholarships, assistance and fees, 31
Fees and costs, 32
Financial assistance, 31
Scholarships, 31
Services and facilities, 34
Campus life, 37
Safety, security and sustainability, 38
Student learning centres, 36
Support for student learning, 34
UTS Library, 36
Social Leaders @ UTS (SoUL), 24
Standard duration, 27
Streams, 650
Student complaints, 25
Student identity cards, 21
Student inquiries, 20
Postgraduate research, 21
UTS International, 21
UTS Student Centres, 20
Student leadership programs, 24
Beyond UTS International Leadership Development (BUiLD) program, 24
Brennan Justice and Leadership program, 24
Social Leaders @ UTS (SoUL), 24
Student learning centres, 36
Chemistry Learning Centre, 36
Jumbunna Indigenous House of Learning, 36
Mathematics and ICT Study Centre, 36
Physics Learning Centre, 36
Student Ombuds, 26
Student services, 34
Student services and amenities fee, 33
Students' Association, 37
Study Assist, 31
Study load, 27
Study package directory
Choice blocks, 498
Majors, 579
Streams, 650
Sub-majors, 633
Study plans, 28
Studying at UTS, 20
Academic progression, 23
Application and admission, 21
Census dates, 22
Course completion and graduation, 23
Enrolment, 22
Equity and diversity, 26
Examinations and results, 23
Faculties, 20
Finding your way around, 20
Global exchange, 24
Introduction to UTS, 20
Legislation, rules and policies, 25
Prizes and awards, 23
Student identity cards, 21
Student inquiries, 20
Student leadership programs, 24
Student Ombuds, 26
Studying at UTS: INSEARCH, 24
UTS communication with students, 21
Studying at UTS: INSEARCH, 24
Sub-majors, 633
Sub-structures, 28
Subject availability, 28
Subjects, 29, 680
Alphabetical list of, 1040
Assessment, 29
Core subjects, 29
Credit points, 29
Electives, 29
Options lists, 29
Recommended studies, 29
Requisites and anti-requisites, 29
Subjects offered by other faculties or institutions, 29
Timetable, 28
Support for student learning, 34
Academic liaison officers, 36
Bridging courses, 35
Computing facilities at UTS, 34
Peer-assisted learning, 34
Student services, 34
Sustainability, 39
City campus upgrade, 39
Community engagement, 39
Energy and climate change, 39
Governance, 39
Recycling and waste, 39
Research, 39
Teaching and learning, 39
Transport, 39
T
Teaching periods, 27
Timetable, 28

U
Understanding courses and subjects, 27
Academic units offering courses and subjects, 30
Assumed knowledge, 27
Availability and typical availability, 28
Course duration and attendance, 27
Course programs, 29
Course structure, 28
Credit recognition, 28
Professional recognition, 28
Study plans, 28
Sub-structures, 28
Subjects, 29
UAC codes, 28
University medal, 24
UTS communication with students, 21
Ask UTS and UTS Service Desk, 21
My Student Admin, 21
Other sources of information, 21
UTS email, 21
UTS Diversity Access Scholarships, 31
UTS email, 21
UTS financial assistance, 32
UTS Gallery and Art Collection, 37
UTS International, 21
UTS Library, 36
UTS rules and policies, 25
UTS Shopfront, 30
UTS Student Centres, 20
UTS Student Charter, 25
UTS Union Ltd, 38
UTS: Business, 49
Information for students, 49
Postgraduate course information, 52
Undergraduate course information, 50
UTS: Communication, 53
Information for students, 53
Postgraduate course information, 55
Undergraduate course information, 54
UTS: Design, Architecture and Building, 57
Information for students, 57
Postgraduate course information, 58
Undergraduate course information, 58
UTS: Education, 60
Adult education, 61
Information for students, 60
Postgraduate course information, 61
Teacher education, 60
UTS: Engineering, 62
Information for students, 62
Postgraduate course information, 66
Undergraduate course information, 65
UTS: Health, 72
Clinical ladders, 74
Information for students, 72
Postgraduate course information, 77
Undergraduate course information, 73
UTS: Information Technology, 81
Information for students, 81
Postgraduate course information, 83
Undergraduate course information, 83
UTS: International Studies, 87
Australian Language and Culture program, 91
Bachelor of Arts in International Studies, 87
Foundations in international studies and contemporary society, 91
In-country study, 88
Information for students, 87
Language and culture subjects, 88
Postgraduate course information, 92
Special arrangements, 91
Undergraduate course information, 92
UTS: Law, 93
Information for students, 93
Postgraduate course information, 98
Undergraduate course information, 96
UTS: Pharmacy, 101
Information for students, 101
Postgraduate course information, 102
UTS: Science, 102
Information for students, 102
Postgraduate course information, 107
Undergraduate course information, 105

V
Vice-Chancellor’s scholarships, 31